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## *Amphibia Mundi*. 1.1. An ergotaxonomy of recent amphibians

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The new publication series *Amphibia Mundi* was presented by DUBOIS (2004a). This will be a series of taxonomic catalogues and regular lists of taxonomic novelties concerning the AMPHIBIA, that will allow users of taxonomic data (biologists, conservationists, administrators, etc.) to find updated information on the state of the art. Contributors to this ambitious endeavour are welcome and should contact our editorial board, either to write some contributions, or to provide information, or to correct some of the mistakes or omissions that our catalogues will unavoidably contain. This first issue of the series presents a list of taxonomic novelties in recent amphibians, i.e., basically a list of new *nomina* (DUBOIS, 2000) recently proposed for amphibians. Information on these novelties must be provided within the frame of a given taxonomy, and respecting strictly the Rules of the *International Code of Zoological Nomenclature* ("the Code"; ANONYMOUS, 1999). These rules, often designated as "Linnaean", have force of law for all zoologists worldwide except those who expressly state that they are following other rules, but then the nomenclature adopted is incompatible with a "Linnaean" one (for details, see DUBOIS, 2005a). The taxonomy used as a framework for *Amphibia Mundi* deserves a few comments.

In most zoological groups, and especially in those like the amphibians, which are currently the matter of numerous phylogenetic works often followed by drastic reappraisals of relationships, any given taxonomy is bound to be provisional. This is by no means problematic, as long as one understands the "heuristic value" of taxonomy (e.g. MAYR, 1981). Taxonomies are not only "results" of phylogenetic and taxonomic research, but may serve as *starting points* for further research, as they provide hypotheses on relationships that can be tested. For each zoological group, until we have reached its "final taxonomy", a goal that is legitimate but which will probably remain out of reach for many decades yet, any taxonomic frame must be viewed as a "working taxonomy" (DUBOIS, 1999) or more shortly an *ergotaxonomy* (DUBOIS, 2005a).

Taxonomy under the "Linnaean" system consists in two different aspects (e.g., DUBOIS, 2005a): establishment or use of *taxa*, and allocation of *ranks* to these taxa. These two aspects are independent and widely different. Establishment or use of *taxa* is a scientific work that relies on a philosophy of taxonomy: it requires a decision regarding which information is believed to be important or crucial to be carried by *taxa* and their *nomina*. Many authors consider that taxonomy should be "phylogenetic", i.e., that *taxa* should, as far as possible (but see DELORME et al., 2004), be "monophyletic sensu

Hennig" or *holophyletic*. Taxa are hierarchically nested within one another, some being more inclusive than others, and there is a single hierarchy of all living beings. A distinct matter is the ranks that are given to these more or less inclusive taxa. Despite several attempts in this respect, there is at present no homogenizing principle that would allow equivalence of taxa at a given rank in different groups: a family of birds is by no criterion equivalent to a family of frogs (DUBOIS, 1988). Ranks are arbitrary and subjective, as are the nomina of taxa. However, just like for the latter, this does not mean that they are useless or harmful and that they should be abandoned. Ranks provide a useful, if not indispensable, system of hierarchisation and indexation of taxonomic information (for more details, discussion and references, see DUBOIS, 2005a). A careful use of ranks allows them to play an important rôle in the *robustness* of ergotaxonomies. Such robustness is an appropriate goal for ergotaxonomies, as they are meant to be useful not only to phylogeneticists and taxonomists but also to all other users of zoological nomina.

To avoid unnecessarily frequent changes in ergotaxonomies, especially back and forth movements between two related taxonomic schemes, any ergotaxonomy chosen for a group should be largely conservative. To attain this goal it should preferably afford *primary key ranks* (e.g., ordo or familia; DUBOIS, 2005b), to taxa that are widely recognized as valid, i.e., that are considered by most authors, on the basis of apparently reliable data, as corresponding to well-supported clades. Such taxa and their nomina are likely to remain unchanged for long periods, which will be appreciated by non-taxonomist users. In contrast, taxa that are more controversial, being less robustly supported by the current set of data, should be afforded secondary key ranks (e.g., legio or phalanx) or even *subsidiary ranks* (e.g., superfamilia or subfamilia) (for more details, see DUBOIS, 2005b). This philosophy was followed for the choice of the ergotaxonomy used in this issue of *Amphibia Mundi*.

In the ergotaxonomy presented below, subfamilies and tribes are recognized only when supported by published phylogenetic hypotheses, even when provisional: some of these taxa are likely to change, but this will not affect very much the overall *familial* scheme. At higher levels, although hypotheses about the relationships between the provisional families as recognized here do exist (for recent data, see e.g.: HAAS, 2003; HOEGG et al., 2004; ROELANTS & BOSSUYT, 2005; SAN MAURO et al., 2005), they are not yet consensual and are still likely to be modified in the coming years. Until a robust cladistic hypothesis is widely accepted, it seems better to refrain from recognizing taxa of rank suborder between family and order, especially as this would raise various nomenclatural problems concerning their best designation (for more details, see DUBOIS, 2004b, 2006). At any rate, in the future, the two nomina *ARCHAEOBATRACHIA* Reig, 1958 and *NEOBATRACHIA* Reig, 1958 must be definitively abandoned, for two distinct but complementary reasons: (1) these nomina are junior homonyms of the nomina *ARCHAEOBATRACHI* Sarasin & Sarasin, 1890 and *NEOBATRACHI* Sarasin & Sarasin, 1890; (2) the nomen *ARCHAEOBATRACHIA* Reig, 1958 was proposed for a taxon that is clearly paraphyletic (references above). The nomen *NEOBATRACHI* Sarasin & Sarasin, 1890 is the valid nomen of the subclass of recent amphibians, that has sometimes been called *LISSAMPHIBIA* Haeckel, 1866. The latter nomen must also be abandoned, being an invalid junior synonym of *BATRACHIA* Brongniart, 1800. More details on nomenclature of higher taxa (above superfamily) of *AMPHIBIA* were provided by DUBOIS (2004b).

Rather than recognizing suborders, a better solution for the time being is to recognize higher ranks in the family-series, i.e., superfamilies (ending in *-OIDEA*) and epifamilies (ending in *-OINIA*), as redefined by DUBOIS (2005b): these taxa do not require the use of other nomina than those of families and may be easily abandoned or modified whenever changes are brought to the clado-taxonomic scheme. The cladistic scheme of SAN MAURO et al. (2005), which largely agrees with other recent studies (HAAS, 2003; ROELANTS & BOSSUYT, 2005) was used as the basic framework for recognition of these higher family-series taxa. For fossil groups, SANCHÍZ (1998) and S. E. EVANS et al. (2005) were largely followed. As explained by DUBOIS (2004b, 2005b), any higher taxon that only includes one taxon of next lower rank, a situation that is sometimes made necessary for taxonomic balance and homogeneity, bears the same nomen as this lower taxon: e.g., epifamily *PELOBATOIDEA* and superfamily *PELOBATOIDEA*,

or superorder † *ALLOCAUDATA* and order † *ALLOCAUDATA*. In such cases, the two ranks are redundant, which causes no nomenclatural problem as long as this does not require formation or recognition of a distinct nomen for each rank (for more details on this controversial question, see DUBOIS, 2005b).

The general ergotaxonomic frame used here is conservative at the *family* level: most of the families have been used for more than a century, and correspond to clades that are consensually recognized by most current authors. In most groups, the ergotaxonomy retained is similar to that given in HUTCHINS et al. (2003), but there are a few important differences, largely related to the inclusion of extinct taxa, but also in a few cases to the acknowledgement of recent cladistic data. Unlike the recent lists of FROST (1985), DUELLMAN (1993) and GLAW et al. (1998), *Amphibia Mundi* provides information on fossil taxa. This has some bearing on the taxonomic frame retained. Because many fossil taxa are known only from partial skeletons, their inclusion in the taxonomy of recent amphibians results in some uncertainties. To limit the impact of this problem, a conservative familial ergotaxonomy was adopted here whenever phylogenetic relationships between taxa are still unsolved or controversial. These taxa were maintained in comprehensive families, which may be split later whenever relationships between them are better understood. Not doing so would result in having many genera unallocated to families, which would simply have to be listed as "incertae sedis" at family level. Given these premises, the taxonomic-nomenclatural scheme adopted here for some families needs a short discussion:

(1) For the "discoglossoid" frogs, the taxonomic scheme of SANCHIZ (1998: 18) was here followed, with a single family including the *ALYTINAE*, *BOMBINATORINAE*, *DISCOGLOSSINAE* and † *GORIATINAE*, as the relationships between these four groups are still controversial (HAAS, 2003; HOEGG et al., 2004; ROELANTS & BOSSUYT, 2005; SAN MAURO et al., 2005). Additionally, a few problematic fossil genera are simply referred to the family without subfamilial allocation. The family as here recognized will most probably have to be dismantled when the relationships between all its genera are better understood. In the meanwhile, the valid nomen for this family is *BOMBINATORIDAE*, as pointed out long ago (DUBOIS, 1984). As the International Commission of Zoological Nomenclature decided not to use its plenary powers to protect the nomen *DISCOGLOSSIDAE* (see DUBOIS, 1987d), the *Code's* Rule of Priority must be followed. The nomen *BOMBINATORIDAE* has been used repeatedly in the recent years (e.g.: FORD & CANNATELLA, 1993; BIJU & BOSSUYT, 2003; MAGLIA, 2003; CANNATELLA & HILLIS, 2004; ROELANTS & BOSSUYT, 2005), so it cannot be rejected as a nomen oblitum.

(2) The case of the "pelobatoid" frogs is similar. Recent discussions have not yet led to a consensual hypothesis for relationships among groups (GARCÍA-PARÍS et al., 2003; HAAS, 2003; CANNATELLA & HILLIS, 2004; HOEGG et al., 2004; ROELANTS & BOSSUYT, 2005; SAN MAURO et al., 2005). A provisional conservative scheme with a single family *PELOBATIDAE* was adopted here. This family includes four subfamilies (*MEGAPHRYNINAE*, *PELOBATINAE*, *PELODYTNINAE*, *SCAPHIOPODINAE*) and several fossil genera that cannot be allocated to subfamilies in the present state of knowledge, especially because of apparent convergences between *PELOBATINAE* and *SCAPHIOPODINAE* in their fossorial adaptations.

(3) Two subfamilies are recognized here within the family *PIPIDAE* following B. J. EVANS et al. (2004, 2005). Priority requires that the subfamily including *Xenopus* and *Silurana* be called *DACTYLETHRINAE*, as already pointed out repeatedly (DUBOIS, 1983, 1984, 1985, 1987b-c).

(4) The epifamily *RANOIDEA* as recognized here corresponds to the "*NEOBATRACHIA*" of several recent authors. This clade is robustly supported by most recent analyses (e.g., HOEGG et al., 2004; VAN DER MEIJDEN et al., 2005). It includes two well-supported large clades, recognized here as the superfamilies *HYLOIDEA* and *RINOIDEA*, and two smaller groups of uncertain affinities (HOEGG et al., 2004), recognized here as the superfamilies *HELEOPHRYNOIDEA* and *SOOGLOSSOIDEA*.

(5) No subfamilies are currently recognized in the family *BUFONIDAE*, although this huge assemblage clearly consists of several subclades, some of which have a limited geographical range whereas others have a much larger distribution. In case future works support the formal recognition of

subfamilies, several family-series nomina are already available and should be used to nominate them rather than coining new nomina (DUBOIS, 1984: 34-35, 1987a: 24-29).

(6) The results of DARST & CANNATELLA (2004) and HOEGG et al. (2004) suggest that the subfamily *PSEUDINAE* Fitzinger, 1843 should be considered a synonym of *HYLINAE* Rafinesque, 1815, not a distinct subfamily.

(7) The recent finding (DARST & CANNATELLA, 2004) that the genus *Brachycephalus* Fitzinger, 1826 (including *Pyxylophryne* Izecksohn, 1971, according to KAPLAN, 2002) is phylogenetically nested within eleutherodactylines, as usually understood, suggests that the taxon including these genera should be called *BRACHYCEPHALINAE* Günther, 1858 instead of *ELEUTHERODACTYLINAE* Lutz, 1954 (as used e.g. by DUELLMAN, 2003). The genus *Craugastor* Cope, 1862 was recently recognized for a large part of the species usually placed in *Eleutherodactylus* Duméril & Bibron, 1841 (CRAWFORD & SMITH, 2005), and the latter genus might have to be further split.

(8) The family *RANIDAE* as understood here is a very conservative group which corresponds to the epifamily *RANOIDAE* as recognized by VENCES & GLAW (2001) and VAN DER MEIJDEN et al. (2005). This huge assemblage includes a number of taxa whose relationships are not yet clarified and most of which are here provisionally treated as subfamilies, following DUBOIS (2003) but adding the *MANTELLINAE* and *RHACOPHORINAE*. Treating the latter as families makes the *RANIDAE* paraphyletic (VENCES & GLAW, 2001; VAN DER MEIJDEN et al., 2004, 2005). This family will probably have to be split in several families, but these may correspond only in part to the subfamilies as recognized below, so this move appears premature. Changes are here brought to the following taxa:

(a) VAN DER MEIJDEN et al. (2005) recently pointed to the well-supported existence of a previously undetected radiation in African ranid frogs that includes all genera placed by DUBOIS (2003) in the *CACOSTERNINAE* Noble, 1931 but also the genera *Afrana*, *Natalobatrachus* and *Pyxicephalus*. This finding is acknowledged here in placing all these genera, as well as the clearly related *Amietia* and *Aubria*, in the same subfamily, for which the nomen *PYXICEPHALINAE* Bonaparte, 1850 has priority.

(b) The data of VAN DER MEIJDEN et al. (2005) also suggest that the genus *Occidozyga* is a member of the *DICROGLOSSINAE* (as already proposed by DUBOIS, 1987a, 1992), and therefore the subfamily *OCCIDOZYGINAE* in DUBOIS (2003) is here downgraded to the rank of a tribe of the latter.

(c) In contrast, the same data also strongly suggest that the genus *Ceratobatrachus* and related genera are not members of the *DICROGLOSSINAE* and that the tribe *CERATOBATRACHINI* of DUBOIS (2003) should be provisionally treated as a subfamily of its own. The valid nomen for this subfamily is *CERATOBATRACHINAE* Boulenger, 1884, not *PLATYMAINTINAE* Laurent, 1866, as suggested by VAN DER MEIJDEN et al. (2005). The genus *Batrachylodes*, placed by DUBOIS (1987a, 1992, 2003) in the *RANINAE* without robust evidence, is here tentatively referred to this subfamily mostly on the grounds of reproductive mode (direct development) and biogeography.

(d) In the tribe *LIMNONECTINI* of the *DICROGLOSSINAE*, the genus *Liurana* Dubois, 1987 is here considered a strict synonym of *Taylorana* Dubois, 1987 (DUBOIS & ÖHLER, in preparation). Priority of *Taylorana* over *Liurana* was fixed by the first-reviser action of DUBOIS (1999: 91).

(e) Cladistic relationships within the subfamily *RANINAE* as recognized by DUBOIS (2003) remain very poorly known and will require additional data. This will not be not an easy task because, as already pointed out (DUBOIS, 1981, 1987a, 1992, 2003), such a revision to be meaningful cannot be limited to analysis of a subsample of the subfamily, chosen e.g. on geographical grounds (e.g., HILLIS & WILCOX, 2005), but must include representatives of at least all groups and subgroups defined by DUBOIS (1992), and probably more. The tribe *AMOLOPINI* Yang, 1991, recognized by DUBOIS (2003), is not adopted here, as its relationships and contents are not yet fully understood. The genus *Odorrana* Fei, Ye & Huang, 1991 should probably be separated from *Rana* (DUBOIS, 2003), but its relationships with several

other groups (e.g.: *Bamburana* Fei, Ye & Huang, 2005; *Chalcorana* Dubois, 1992; *Eburana* Dubois, 1992; *Nasirana* Dubois, 1992) should first be clarified. Except for the genera *Afrana*, *Amisiera* and *Strongylopus*, here placed in the *Pyxicephalinae* for reasons explained above, the genus *Rana* is here kept as a wide and probably polyphyletic assemblage (DUBOIS, 1992) to avoid the creation of paraphyletic genera, which would certainly be the case if e.g. *Aminirana* Dubois, 1992, *Hylarana* Tschudi, 1838, *Pelophylax* Fitzinger, 1843, *Pseudorana* Fei, Ye & Huang, 1991 or *Rugosa* Fei, Ye & Huang, 1991 were raised to generic rank, as proposed by some recent authors (e.g., FEI et al., 1991, 2005; VAN DER MEIJDEN et al., 2005).

(f) On the other hand, within the *RANINAE*, a new tribe *STAUROIINI* (type-genus *Staurois* Cope, 1865) is here erected for the genus *Staurois* alone. The diagnosis of this tribe is as follows: its members share two important characters with the *RHACOPHORINAE*, i.e. completely closed ventral cells on digital disks and glandular belly skin (DUBOIS, 1992: 321, 334; BOSSUYT & DUBOIS, 2001: 4), and show other synapomorphies for the *RANINAE*, such as special courtship display (HARDING, 1982) and unusual keratodont formulae in tadpoles (ALTIG & MCDIARMID, 1999: 331). BOSSUYT & DUBOIS (2001: 4) wrote about the genus *Staurois*: "In fact, but for the absence of intercalary cartilages on digits, there seems to be little reason for not assigning the genus *Staurois* to the *Rhacophorinae*". According to recent molecular data (ROELANTS et al., 2004), this genus appears as the sister-group of all other *RANINAE*.

(g) The relationships of the other groups of *RANIDAE* (as here understood) are not yet clarified (e.g., VAN DER MEIJDEN et al., 2005), so these groups are here provisionally maintained as the subfamilies *CONRAUINAE*, *LANKANECTINAE*, *MICRIXALINAE*, *NYCTIBATRACHINAE*, *PTYCHADENINAE*, *RANIXALINAE*, *PETROPEDETINAE* and *PHRYNOBATRACHINAE*. The latter two groups were included by DUBOIS (2003) in a single subfamily *PETROPEDETINAE*, but this taxon appears paraphyletic according to the data of VAN DER MEIJDEN et al. (2005).

(8) The recent molecular data of DARST & CANNATELLA (2004) and VAN DER MEIJDEN et al. (2004, 2005) support the opinion of LAURENT (1980, 1986) and DUBOIS (1981, 1987a, 1992) that the *ARTHROLEPTINAE*, *ASTYLOSTERNINAE* and *HYPEROLINAE* belong in the same clade, recognized by VENCES & GLAW (2001) and VAN DER MEIJDEN et al. (2005) as the epifamily *ARTHROLEPTOIDEA*. But these data also suggest that two other groups, traditionally recognized as the *MICROHYLIDAE* *BREVICIPTINAE* and the *HEMISOTIDAE*, are also members of this clade. To account for these findings, these five groups are here recognized as subfamilies of a single, purely African, family, which must bear the nomen *BREVICIPTIDAE*. This is not because "the oldest available genus name in this clade is *Breviceps* Merrem, 1920" (DARST & CANNATELLA, 2004: 468), as priority among family-series nomina is determined by the dates of the latter nomina, not by those of the nomina of their included genera! The valid nomen in this case is *BREVICIPTINA* Bonaparte, 1850, which has priority over *HEMISIDAE* Cope, 1867 and *ARTHROLEPTINA* Mivart, 1869. In Linnaean nomenclature, *BREVICIPTINA*, *BREVICIPTINAE*, *BREVICIPTIDAE* or *BREVICIPTOIDEA* are simply different aponyms of the same nomen (see DUBOIS, 2000), which have the same author and date but "simply" different ranks: it is thus incorrect to write that there "seems to be no available superfamily name" for this taxon (DARST & CANNATELLA, 2004: 468). Besides the five subfamilies listed above, a sixth subfamily is here recognized in this family for the *LEPTOPELINAE*, which according to EMERSON et al. (2000) represent a subclade distinct from the *HYPEROLINAE*.

(9) In the urodelan family *PLETHODONTIDAE*, the traditional taxonomy (WAKE, 2003) has been challenged by recent findings. The molecular phylogenetic data recently provided by CHIPPINDALE et al. (2004) suggest the existence of two major lineages, for which the nomina *HEMIDACTYLINAE* and *PLETHODONTINAE* are available. The first lineage seems to include three subclades, which can be provisionally recognized as tribes, under the nomina *BOLITOGLOSSINI*, *HEMIDACTYLINI* and *SPELLERPINI*. In this group, the genus *Eurycea* Rafinesque, 1822 is here understood as including the taxa traditionally known as the genera *Haideotriton* Carr, 1939, *Typhlomolge* Stejneger, 1896 and *Typhlotriton* Stejneger, 1893, as well as other taxa more recently recognized (HILLIS et al., 2001). The second lineage of

*PLETHODONTIDAE* seems to include two subclades, for which the nomina *DESMOGNATHINI* and *PLETHODONTINI* are available. The new data obtained by MUELLER et al. (2004), and by MIN et al. (2005) on the occasion of the discovery of *Karsenia koreana*, furthermore suggest that the genus *Hydromantes* s.l. (including *Speleomantes*) must be placed in the *DESMOGNATHINI*, rather than in the *BOLITOGLOSSINI*. The phylogeny and taxonomy of this family are still under intense study and will probably have to be modified in the near future.

(10) In the family *SALAMANDRIDAE*, on the basis of "molecular studies in progress" ("estudios moleculares en curso"), GARCÍA-PARÍS et al. (2004) recently split the genus *Triturus* in four genera, recognizing the genera *Lissotriton*, *Mesotriton* and *Ommatotriton*. No subfamilies are currently recognized in this family, although LAURENT (1986) had recognized three subfamilies, including respectively the genera *Pleurodeles*, *Salamandra* and *Triturus* (and other genera in each). If, following ongoing works, this or a similar arrangement had to be adopted, the valid nomina for these three subfamilies would be, respectively, *PLEURODELINAE* TSCHUDI, 1838, *SALAMANDRINAE* Goldfuss, 1820 and *MOLGINAE* Gray, 1850 (see DUBOIS, 1985).

(11) Beside the three traditional orders *ANURA*, *URODELA* and *GYMNOPHIONA* (for their valid nomina see DUBOIS, 2004b), an order † *ALLOCAUDATA* is here tentatively recognized for the family † *ALBERPETONTIDAE* in order to account for the results of MCGOWAN & EVANS (1995).

The ergotaxonomy used in this first issue of *Amphibia Mundi* will certainly have to be modified in subsequent issues. The list below only mentions the nomina of taxa currently considered valid on the basis of *published* evidence, except in a few cases mentioned above. Hierarchy of taxa is shown by indentation from margin, and ranks of class-series and family-series taxa (DUBOIS, 2005a-b) are written in full. Taxa of same rank subordinate to the same taxon are listed by alphabetical order. Synonyms, subgenera and other infrageneric supraspecific taxa, species and subspecies are not listed. Nomina of entirely fossil taxa are preceded by the sign †.

Classis **AMPHIBIA** De Blainville, 1816

Subclassis **NEOBATRACHI** Sarasin & Sarasin, 1890

Superordo † **ALLOCAUDATA** Fox & Naylor, 1982

Ordo † **ALLOCAUDATA** Fox & Naylor, 1982

Epifamilia † **ALBANERPETONTOIDIA** Estes & Hoffstetter, 1976

Superfamilia † **ALBANERPETONTOIDEA** Estes & Hoffstetter, 1976

Familia † **ALBANERPETONTIDAE** Estes & Hoffstetter, 1976

† *Albanerpeton* Estes & Hoffstetter, 1976

† *Anoualerpeton* Gardner, Evans & Sigogneau-Russell, 2003

† *Celtedens* McGowan & Evans, 1995

† *Nukusurus* Nessov, 1981

Superordo **BATRACHIA** Brongniart, 1800

Ordo **ANURA** Duméril, 1806

Incertae sedis

† *Aralobatrachus* Nessov, 1981

† *Avitabatrachus* Báez, Trueb & Calvo, 2000

† *Batrachulina* Kuhn, 1962

† *Comobatrachus* Hecht & Estes, 1960

† *Czathobatrachus* Evans & Borsuk-Bialynicka, 1998

† *Eobatrachus* Marsh, 1887

† *Eorubeta* Hecht, 1960

† *Estesina* Roček & Nessov, 1993

† *Gobiatooides* Roček & Nessov, 1993



- † *Hatzegobatrachus* Venczel & Csiki, 2003
- † *Itemirella* Nessov, 1981
- † *Liventsovika* Ratnikov, 1993
- † *Lutetiobatrachus* Wuttke, 1988
- † *Mesophryne* Gao & Wang, 2001
- † *Negatchevkia* Ratnikov, 1993
- † *Nezpercius* Blob, Carrano, Rogers, Forster & Espinoza, 2001
- † *Novoskolia* Ratnikov, 1993
- † *Probatrachus* Peters, 1878
- † *Procerobatrachus* Roček & Nessov, 1993
- † *Protophrymus* Pomel, 1953
- † *Saevesoederberghia* Roček & Nessov, 1993
- † *Sunnybatrachus* Evans & McGowan, 2002
- † *Thaumastosaurus* De Stefano, 1903
- † *Theatoni* Fox, 1976
- † *Yizhoubatrachus* Gao & Chen, 2004
- Familia † *PROSALIRIDAE* Shubin & Jenkins, 1995
  - † *Prosaliurus* Kuhn, 1964
- Familia † *RANAVINAE* Fejérváry, 1920
  - † *Ranavus* Portis, 1885
- Familia † *TREGOBATRACHIDAE* Holman, 1974
  - † *Tregobatrachus* Holman, 1974
- Familia † *VIERAELLIDAE* Kuhn, 1964
  - † *Vieraella* Reig, 1961
- Epifamilia *BOMBINATOROIDIA* Gray, 1825
- Superfamilia *BOMBINATOROIDEA* Gray, 1825
- Familia *BOMBINATORIDAE* Gray, 1825
  - Incertae sedis
    - † *Altamulia* Gubin, 1993
    - † *Callobatrachus* Wang & Gao, 1997
    - † *Enneabatrachus* Evans & Milner, 1993
    - † *Latoglossus* Hossini, 2000
    - † *Montsechobatrachus* Fejérváry, 1921
    - † *Opisthocolellus* Kuhn, 1941
    - † *Pelophilus* Tschudi, 1838
    - † *Scotiophryne* Estes, 1969
  - Subfamilia *ALYTINAE* Fitzinger, 1843
    - Alytes* Wagler, 1829
    - † *Kizylkuma* Nessov, 1981
  - Subfamilia *BOMBINATORINAE* Gray, 1825
    - Barbourula* Taylor & Noble, 1924
    - Bombina* Oken, 1816
  - Subfamilia *DISCOGLOSSINAE* Günther, 1858
    - Discoglossus* Orth, 1837
    - † *Eodiscoglossus* Villalta, 1956
    - † *Latonia* Meyer, 1843
    - † *Paradiscoglossus* Estes & Sanchiz, 1982
    - † *Paralatonia* Venczel & Csiki, 2003
    - † *Waldenbatrachus* Fey, 1988

- Subfamilia † *GobiATINAE* Roček & Nessov, 1993
  - † *Gretasalia* Gubin, 1999
  - † *Gobiates* Špinar & Tatarinov, 1986
- Epifamilia *LEIOPELMATOIDIA* Mivart, 1869
- Superfamilia *LEIOPELMATOIDEA* Mivart, 1869
- Familia *ASCAPHIDAE* Fejérváry, 1923
  - Ascaphus* Stejneger, 1899
- Familia *LEIOPELMATIDAE* Mivart, 1869
- Subfamilia *LEIOPELMATINAE* Mivart, 1869
  - Leiopelma* Fitzinger, 1861
- Subfamilia † *NOTOBATRACHINAE* Reig, 1957
  - † *Notobatrachus* Reig, 1956
- Epifamilia *PELOBATOIDIA* Bonaparte, 1850
- Superfamilia *PELOBATOIDEA* Bonaparte, 1850
- Familia *PELOBATIDAE* Bonaparte, 1850
- Incertae sedis
  - † *Liaobatrachus* Ji Shu'an & Ji Quang, 1998
  - † *Macropelobates* Noble, 1924
  - † *Uldzinia* Gubin, 1996
- Subfamilia *MEGOPHRYINAE* Bonaparte, 1850
- Tribus *LEPTOBRACHINI* Dubois, 1983
  - Leptobranchella* Smith, 1925
  - Leptobranchium* Tschudi, 1838
  - Leptolalax* Dubois, 1980
  - Oreolalax* Myers & Leviton, 1962
  - Scutiger* Theobald, 1868
- Tribus *MEGOPHRYINI* Bonaparte, 1850
  - Brachytarsophrys* Tian & Hu, 1983
  - Megophrys* Kuhl & Van Hasselt, 1822
  - Ophryophryne* Boulenger, 1903
  - Xenophrys* Günther, 1864
- Subfamilia *PELOBATINAE* Bonaparte, 1850
  - † *Eopelobates* Parker, 1929
  - Pelobates* Wagler, 1830
- Subfamilia *PELODYTINAE* Bonaparte, 1850
  - † *Miopelodytes* Taylor, 1941
  - Pelodytes* Bonaparte, 1838
  - † *Tephrodytes* Henrici, 1994
- Subfamilia *SCAPHIOPODINAE* Cope, 1865
  - Scaphiopopus* Holbrook, 1836
  - Spea* Cope, 1866
- Epifamilia *PIPOIDIA* Gray, 1825
- Superfamilia *PIPOIDEA* Gray, 1825
- Incertae sedis
  - † *Aygroua* Jones, Evans & Sigogneau-Russell, 2003
  - † *Thoraciliacus* Nevo, 1968
- Familia † *PALAEOBATRACHIDAE* Cope, 1865
  - † *Albionbatrachus* Meszoely, Špinar & Ford, 1984
  - † *Messelobatrachus* Wuttke, 1988

† *Palaeobatrachus* Tschudi, 1838

† *Phobatrachus* Fejerváry, 1917

Familia *PIPIDAE* Gray, 1825

Incertae sedis

† *Cordicephalus* Nevo, 1968

† *Excenopoides* Haughton, 1931

† *Liankibatrachus* Báez & Pugener, 2003

† *Shomronella* Estes, Špinar & Nevo, 1978

† *Thoracihacus* Nevo, 1968

Subfamilia *DACTYLETHRINAE* Hogg, 1838

† *Pachycentrata* Báez & Rage, 2004

† *Saltenia* Reig, 1959

† *Shelania* Casamiquela, 1960

*Siturana* Gray, 1864

*Xenopus* Wagler, 1827

Subfamilia *PIPINAE* Gray, 1825

*Hymenochirus* Boulenger, 1896

*Pipa* Laurenti, 1768

*Pseudhymenochirus* Chabanaud, 1920

Familia *RHINOPHRYNIDAE* Günther, 1858

† *Chelomophrynus* Henrici, 1991

† *Eorhinophrynus* Hecht, 1959

† *Rhadinosteus* Henrici, 1998

*Rhinophrynus* Dumeril & Bibron, 1841

Epifamilia *RANOIDA* Rafinesque-Schmaltz, 1814

Superfamilia *HELEOPHRYNODEA* Noble, 1931

Familia *HELEOPHRYNIDAE* Noble, 1931

*Heleophryne* Slater, 1899

Superfamilia *HYLOIDEA* Rafinesque, 1815

Familia *ALLOPHRYNIDAE* Goin, Goin & Zug, 1978

*Allophryne* Gaige, 1926

Familia *BUFONIDAE* Gray, 1825

*Adenomus* Cope, 1860

*Aliphrynoides* Dubois, 1987

*Andanophryne* Hoogmoed, 1985

*Ansonia* Stoliczka, 1870

*Atelophryniscus* McCranie, Wilson & Williams, 1989

*Atelopus* Duméril & Bibron, 1841

*Bufo* Laurenti, 1768

*Bufoides* Pillai & Yazdani, 1973

*Capensibufo* Grandison, 1980

*Churamtu* Channing & Stanley, 2002

*Crepidophryne* Cope, 1889

*Dendrophryniscus* Jiménez de la Espada, 1871

*Didynamipus* Andersson, 1903

*Frostius* Cannatella, 1986

*Laurentophryne* Tihen, 1960

*Leptophryne* Fitzinger, 1843

*Melanophryniscus* Gallardo, 1961

*Mertensophryne* Tihen, 1960

*Metaphryniscus* Señaris, Ayarzagüena & Gorzula, 1994  
*Nectophryne* Buchholz & Peters, 1875  
*Nectophrynoides* Noble, 1926  
*Nimbaphrynoides* Dubois, 1987  
*Oreophrynella* Boulenger, 1895  
*Osornophryne* Ruiz-Carranza & Hernández-Camacho, 1976  
*Paraplethrynne* Fei, Ye & Jiang, 2003  
*Pedostibes* Günther, 1876  
*Pelophryne* Barbour, 1938  
*Phrynomis* Fitzinger, 1843  
*Pseudobufo* Tschudi, 1838  
*Rhamphophryne* Trueb, 1971  
*Schismaderma* Smith, 1849  
*Spmophrynoides* Dubois, 1987  
*Stephopaedes* Channing, 1978  
*Truebella* Graybeal & Cannatella, 1995  
*Werneria* Poche, 1903  
*Wolterstorffina* Mertens, 1939

**Familia CENTROLEPIDIDAE** Taylor, 1951

*Centrolene* Jiménez de la Espada, 1872  
*Cochranella* Taylor, 1951  
*Hyalinobatrachium* Ruiz-Carranza & Lynch, 1991

**Familia DENDROBATIDAE** Cope, 1865 (1850)

*Allobates* Zimmermann & Zimmermann, 1988  
*Aromobates* Myers, Paolillo & Daly, 1991  
*Colostethus* Cope, 1866  
*Cryptophyllobates* Lötters, Jungfer & Widmer, 2000  
*Dendrobates* Wagler, 1830  
*Epipedobates* Myers, 1987  
*Mannophryne* LaMarca, 1992  
*Nephelobates* La Marca, 1994  
*Phyllobates* Duméril & Bibron, 1841

**Familia HYLIDAE** Rafinesque, 1815

Subfamilia *HEMIPHRACTINAE* Peters, 1862

*Cryptobatrachus* Ruthven, 1916  
*Flectonotus* Miranda-Ribeiro, 1920  
*Gastrotheca* Fitzinger, 1843  
*Hemiphraactus* Wagler, 1828  
*Stefania* Ruverio, 1968

Subfamilia *HYLINAE* Rafinesque, 1815

*Acris* Duméril & Bibron, 1841  
*Anotheca* Smith, 1939  
*Aparasphenodon* Miranda-Ribeiro, 1920  
*Aplastodiscus* Lutz, 1950  
*Argenteohyla* Trueb, 1970  
*Corythomantis* Boulenger, 1896  
*Duellmanohyla* Campbell & Smith, 1992  
*Hyla* Laurenti, 1768  
*Lyapsus* Cope, 1862  
*Nyctimantis* Boulenger, 1882

- Osteocephalus* Steindachner, 1862  
*Osteopilus* Fitzinger, 1843  
*Phrynohyas* Fitzinger, 1843  
*Phyllodytes* Wagler, 1830  
*Plectrohyla* Brocchi, 1877  
† *Proacris* Holman, 1961  
*Pseudacris* Fitzinger, 1843  
*Pseudis* Wagler, 1830  
*Pternohyla* Boulenger, 1882  
*Psychohyla* Taylor, 1944  
*Scarthyla* Duellman & De Sá, 1988  
*Scinax* Wagler, 1830  
*Smituca* Cope, 1865  
*Sphaenorhynchus* Tschudi, 1838  
*Tepuihyla* Ayarzagüena, Señaris & Gorzula, 1992  
*Trachycephalus* Tschudi, 1838  
*Triprion* Cope, 1866  
*Xenohyla* Izecksohn, 1998  
Subfamilia *PELODRYADINAE* Günther, 1858  
*Cyclorana* Steindachner, 1867  
† *Etmabatrachus* Hochnull, 2003  
*Litoria* Tschudi, 1838  
*Nyctimystes* Stejneger, 1916  
*Pelodryas* Günther, 1859  
Subfamilia *PHYLLOMEDUSINAE* Günther, 1858  
*Agalychnis* Cope, 1864  
*Hylomantis* Peters, 1872  
*Pachymedusa* Duellman, 1968  
*Phasmahyla* Cruz, 1991  
*Phrynomedusa* Miranda-Ribeiro, 1923  
*Phyllomedusa* Wagler, 1830  
Familia *LEPTODACTYLIDAE* Werner, 1896 (1838)  
Incertae sedis  
† *Estesiella* Baez, 1995  
Subfamilia *BRACHYCEPHALINAE* Günther, 1858  
*Adelophryne* Hoogmoed & Lescure, 1984  
*Atopophryne* Lynch & Ruiz-Carranza, 1982  
*Barycholos* Heyer, 1969  
*Brachycephalus* Fitzinger, 1826  
*Craugastor* Cope, 1862  
*Dischidodactylus* Lynch, 1979  
*Eleutherodactylus* Dumeril & Bibron, 1841  
*Euparkerella* Griffiths, 1959  
*Geobatrachus* Ruthven, 1915  
*Holoaden* Miranda-Ribeiro, 1920  
*Ischnocnema* Reinhardt & Lütken, 1862  
*Phrynomus* Peters, 1874  
*Phyllonastes* Heyer, 1977  
*Physelaphryne* Heyer, 1977

## Subfamilia CERATOPHRYNINAE Tschudi, 1838

† *Baurubatrachus* Báez & Peri, 1990*Ceratophrys* Wied-Neuwied, 1824*Chacophrys* Reig & Limeses, 1963*Lepidobatrachus* Budgett, 1899† *Wauwela* Casamiquela, 1959

## Subfamilia CYCLORAMPHINAE Bonaparte, 1850

*Crossodactylodes* Cochran, 1938*Cycloramphus* Tschudi, 1838*Paratelmatobius* Lutz & Carvalho, 1958*Rupirana* Heyer, 1999*Scythrophrys* Lynch, 1971*Thoropa* Cope, 1865*Zachaeus* Cope, 1866

## Subfamilia HYLODINAE Günther, 1858

*Crossodactylus* Duméril & Bibron, 1841*Hylodes* Fitzinger, 1826*Megaelosia* Miranda-Ribeiro, 1923

## Subfamilia LEPTODACTYLINAE Werner, 1896 (1838)

*Adenomera* Steindachner, 1867*Edalorhina* Jiménez de la Espada, 1870*Hydrolaetare* Gallardo, 1963*Leptodactylus* Fitzinger, 1826*Limnomedusa* Fitzinger, 1843*Lithodytes* Fitzinger, 1843*Physalaemus* Fitzinger, 1826*Pleurodema* Tschudi, 1838*Pseudopaludicola* Miranda-Ribeiro, 1926*Vanzolinius* Heyer, 1974

## Subfamilia ODONTOPHRYNINAE Lynch, 1969

*Macrogemolotus* Carvalho, 1946*Odontophrynus* Reinhardt & Lütken, 1862*Proceratophrys* Miranda-Ribeiro, 1920

## Subfamilia TELMATOBINAE Fitzinger, 1843

*Alsodes* Bell, 1843*Atelognathus* Lynch, 1978*Batrachophrynus* Peters, 1873*Batrachyla* Bell, 1843*Cauduverbera* Laurenti, 1768*Eupsophus* Fitzinger, 1843*Hylorina* Bell, 1843*Insuetophrynus* Barrio, 1970† *Neoprocoela* Schaeffer, 1949*Somuncuria* Lynch, 1978*Telmatobius* Wiegmann, 1835*Telmatobufo* Schmidt, 1952

## Familia MYOBATRACHIDAE Schlegel, 1850

## Incertae sedis

† *Indobatrachus* Noble, 1930

Subfamilia *LIMNODYNASTINAE* Lynch, 1969

- Adelotus* Ogilby, 1907
- Heleoporus* Gray, 1841
- Kyarranus* Moore, 1958
- Lechriodus* Boulenger, 1882
- Limnodynastes* Fitzinger, 1843
- Mixophyes* Günther, 1864
- Neobatrachus* Peters, 1863
- Notaden* Günther, 1873
- Phloria* Spencer, 1901

Subfamilia *MYOBATRACHINAE* Schlegel, 1850

- Arenophryne* Tyler, 1976
- Assa* Tyler, 1972
- Bryobatrachus* Rounsevell, Ziegeler, Brown, Davies & Littlejohn, 1994
- Crinia* Tschudi, 1838
- Geocrinia* Blake, 1973
- Metacrinia* Parker, 1940
- Myobatrachus* Schlegel, 1850
- Paracrinia* Heyer & Liem, 1976
- Pseudophryne* Fitzinger, 1843
- Rheobatrachus* Liem, 1973
- Spicospina* Roberts, Horwitz, Wardell-Johnson, Maxson & Mahony, 1997
- Taudactylus* Straughan & Lee, 1966
- Uperoleia* Gray, 1841

Familia *RHINODERMATIDAE* Bonaparte, 1850

- Rhinoderma* Duméril & Bibron, 1841

Superfamilia *RANOIDEA* Rafinesque-Schmaltz, 1814

## Incertae sedis

- † *Ranomorphus* Ratnikov, 1993

Familia *BREVICIPTIDAE* Bonaparte, 1850Subfamilia *ARTHROLEPTINAE* Mivart, 1869

- Arthrolepis* Smith, 1849
- Cardioglossa* Boulenger, 1900

Subfamilia *ASTYLOSTERNINAE* Noble, 1927

- Astylosternus* Werner, 1898
- Leptodactylodon* Andersson, 1903
- Nyctmbates* Boulenger, 1904
- Scotobleps* Boulenger, 1900
- Trichobatrachus* Boulenger, 1900

Subfamilia *BREVICIPTINAE* Bonaparte, 1850

- Balebreviceps* Largen & Drewes, 1989
- Breviceps* Merrem, 1820
- Callulna* Nieden, 1910
- Probreviceps* Parker, 1931
- Spelaeophryne* Ahl, 1924

Subfamilia *HEMISOTTINAE* Cope, 1867

- Hemisus* Günther, 1859

Subfamilia *HYPEROLIINAE* Laurent, 1943Tribus *HYPEROLIINI* Laurent, 1943

- Acanthixalus* Laurent, 1944

- Afraxalus* Laurent, 1944  
*Alexteroon* Perret, 1988  
*Arlequinus* Perret, 1988  
*Callixalus* Laurent, 1950  
*Chlorohus* Perret, 1988  
*Chrysobatrachus* Laurent, 1951  
*Cryptothylax* Laurent & Combaz, 1950  
*Heterixalus* Laurent, 1944  
*Hyperohus* Rapp, 1842  
*Kassinula* Laurent, 1940  
*Tachycnemus* Fitzinger, 1843  
 Tribus *KASSININI* Laurent, 1972  
*Kassina* Girard, 1853  
*Opisthothylax* Perret, 1966  
*Paracassina* Peracca, 1907  
*Phlyctimantis* Laurent & Combaz, 1950  
*Semnodactylus* Hoffman, 1939  
 Subfamilia *LETOPELINAE* Laurent, 1972  
*Lepidopelis* Gunther, 1859 1869  
 Familia *MICROHYLIDAE* Gunther, 1858 (1843)  
 Subfamilia *ASTEROPHRYINAE* Günther, 1858  
 Incertae sedis  
 † *Australobatrachus* Tyler, 1976  
 Tribus *ASTEROPHRYINI* Günther, 1858  
*Asterophrys* Tschudi, 1838  
*Hylophorbus* Macleay, 1878  
*Mantophryne* Boulenger, 1897  
*Pterohaspis* Zweifel, 1972  
 Tribus *BARYGENYINI* Burton, 1986  
*Barygenys* Parker, 1936  
 Tribus *CALLULOPINI* Dubois, 1988  
*Callulops* Boulenger, 1888  
 Tribus *XENORHINI* Mivart, 1869  
*Xenobatrachus* Peters & Doria, 1878  
*Xenorhina* Peters, 1863  
 Subfamilia *CALLULINAE* Fei, Ye & Jiang, 2005  
*Calluella* Stoliczka, 1872  
 Subfamilia *COPHYLINAE* Cope, 1889  
*Anodonthyla* Müller, 1892  
*Cophyla* Boettger, 1880  
*Madecassophryne* Guibé, 1974  
*Platypelis* Boulenger, 1882  
*Plethodontohyla* Boulenger, 1882  
*Rhombophryne* Boettger, 1880  
*Stumpffia* Boettger, 1881  
 Subfamilia *DYSCOPHINAE* Boulenger, 1882  
*Dyscophus* Granddier, 1872  
 Subfamilia *GEAYOPHRYINAE* Boulenger, 1890  
*Albericus* Burton & Zweifel, 1995



- Aphantophryne* Fry, 1917  
*Austrochaperina* Fry, 1912  
*Choerophryne* Van Kampen, 1915  
*Cophixalus* Boettger, 1892  
*Copula* Mehely, 1901  
*Genyophryne* Boulenger, 1890  
*Laophryne* Boulenger, 1897  
*Oreophryne* Boettger, 1895  
*Oxydactyla* Van Kampen, 1913  
*Sphenophryne* Peters & Doria, 1878  
**Subfamilia HOPLOPHRYNINAE** Noble, 1931  
*Hoplophryne* Barbour & Loveridge, 1928  
*Parhoplophryne* Barbour & Loveridge, 1928  
**Subfamilia MICROHYLINAE** Günther, 1858 (1843)  
**Tribus GASTROPHRYNINI** Fitzinger, 1843  
*Adelastes* Zweifel, 1986  
*Atingus* Wild, 1995  
*Arcovermer* Carvalho, 1954  
*Chasmocleus* Mehely, 1904  
*Ctenophryne* Mocquard, 1904  
*Dasylops* Miranda-Ribeiro, 1924  
*Dermatonotus* Mehely, 1904  
*Elachistocleis* Parker, 1927  
*Gastrophryne* Fitzinger, 1843  
*Hamptophryne* Carvalho, 1954  
*Hyophryne* Carvalho, 1954  
*Hypopachus* Kesterstein, 1867  
*Myersiella* Carvalho, 1954  
*Nelsonophryne* Frost, 1987  
*Otophryne* Boulenger, 1900  
*Stereocyclops* Cope, 1870  
*Synapturanus* Carvalho, 1954  
*Syncope* Walker, 1973  
**Tribus MICROHYLINI** Günther, 1858 (1843)  
*Chaperina* Mocquard, 1892  
*Gastrophrynoides* Noble, 1926  
*Glyphoglossus* Günther, 1868  
*Kalophrynus* Tschudi, 1838  
*Kaloula* Gray, 1831  
*Melanobatrachus* Beddome, 1878  
*Metaphrynella* Parker, 1934  
*Microhyla* Tschudi, 1838  
*Micryletta* Dubois, 1987  
*Phrynella* Boulenger, 1887  
*Ramanella* Rao & Ramanna, 1925  
*Uperodon* Dumeril & Bibron, 1841  
**Subfamilia PHRYNOMERINAE** Noble, 1931  
*Phrynomantis* Peters, 1867  
**Subfamilia SCAPHIOPHYRINAE** Laurent, 1946  
*Paradoxophyla* Blommers-Schlösser & Blanc, 1991  
*Scaphiophryne* Boulenger, 1882

- Familia *RANIDAE* Rafinesque-Schmaltz, 1814
- Subfamilia *CERATOBATRACHINAE* Boulenger, 1884
- Batrachylodes* Boulenger, 1887
- Ceratobatrachus* Boulenger, 1884
- Discodeles* Boulenger, 1918
- Ingerana* Dubois, 1987
- Palmatorappia* Ahl, 1927
- Platymantis* Günther, 1859
- Subfamilia *CONRAUINAE* Dubois, 1992
- Conraua* Nieden, 1908
- Subfamilia *DICROGLOSSINAE* Anderson, 1871
- Tribus *DICROGLOSSINI* Anderson, 1871
- Euphlyctes* Fitzinger, 1843
- Fejervarya* Bolkaý, 1915
- Hoplobatrachus* Peters, 1863
- Minervarya* Dubois, Ohler & Biju, 2001
- Nannophrys* Günther, 1869
- Sphaerotheca* Günther, 1859
- Tribus *LIMNONECTINI* Dubois, 1992
- Annandia* Dubois, 1992
- Elachyglossa* Andersson, 1916
- Limnnectes* Fitzinger, 1843
- Taylorana* Dubois, 1987
- Tribus *OCCIDOZYGINI* Fei, Ye & Huang, 1991
- Occidozyga* Kuhl & Van Hasselt, 1822
- Phrynoglossus* Peters, 1867
- Tribus *PAINI* Dubois, 1992
- Chaparana* Bourret, 1939
- Nanorana* Günther, 1896
- Quasipaa* Dubois, 1992
- Subfamilia *LANKANECTINAE* Dubois & Ohler, 2001
- Lankanectes* Dubois & Ohler, 2001
- Subfamilia *MANTELLINAE* Laurent, 1946
- Tribus *BOOPHINI* Vences & Glaw, 2001
- Boophis* Tschudi, 1838
- Tribus *LALIOSTOMINI* Vences & Glaw, 2001
- Aghyptodactylus* Boulenger, 1919
- Laliostoma* Glaw, Vences & Böhme, 1998
- Tribus *MANTELLINI* Laurent, 1946
- Mantella* Boulenger, 1882
- Mantidactylus* Boulenger, 1895
- Subfamilia *MICRIXALINAE* Dubois, Ohler & Biju, 2001
- Micrixalus* Boulenger, 1888
- Subfamilia *NYCTIBATRACHINAE* Blommers-Schlösser, 1993
- Nyctibatrachus* Boulenger, 1882
- Subfamilia *PETROPEDETINAE* Noble, 1931
- Arthroleptides* Nieden, 1910
- Petropedetes* Reichenow, 1874
- Subfamilia *PHRYNORATRACHINAE* Laurent, 1941
- Dimorphognathus* Boulenger, 1906

- Ericabatrachus* Largen, 1991  
*Phrynobatrachus* Günther, 1862  
*Phrynodon* Parker, 1935
- Subfamily *PRYCHADENINAE* Dubois, 1987  
*Hildebrandtia* Nieden, 1907  
*Lanzarana* Clarke, 1983  
*Psychadena* Boulenger, 1917
- Subfamily *PYXICEPHALINAE* Bonaparte, 1850  
*Afrana* Dubois, 1992  
*Ametia* Dubois, 1987  
*Anhydrophryne* Hewitt, 1919  
*Aubria* Boulenger, 1917  
*Arthroleptella* Hewitt, 1926  
*Cacosternum* Boulenger, 1887  
*Microbatrachella* Hewitt, 1926  
*Natalobatrachus* Hewitt & Methuen, 1913  
*Nothophryne* Poynton, 1963  
*Poyntonia* Channing & Boycott, 1989  
*Pyxicephalus* Tschudi, 1838  
*Strongylopus* Tschudi, 1838  
*Tomopterna* Duméril & Bibron, 1841
- Subfamily *RANINAE* Rafinesque-Schmaltz, 1814  
Tribus *RANINI* Rafinesque-Schmaltz, 1814  
*Amolops* Cope, 1865  
*Pseudoamolops* Fei, Ye & Jiang, 2000  
*Rana* Linnaeus, 1758
- Tribus *STAUROINI* nov.  
*Stauros* Cope, 1865
- Subfamily *RANIXALINAE* Dubois, 1987  
*Indirana* Laurent, 1986
- Subfamily *RHACOPHORINAE* Hoffman, 1932 (1858)  
Incertae sedis  
*Dendrobatorana* Ahl, 1927
- Tribus *BUERGERIINI* Channing, 1989  
*Buergeria* Tschudi, 1838
- Tribus *PHILAUTINI* Dubois, 1981  
*Aquixalus* Delorme, Dubois, Grosjean & Ohler, 2005  
*Kurixalus* Fei, Ye & Dubois, 1999  
*Nyctixalus* Boulenger, 1882  
*Philautus* Gistel, 1848  
*Theloderma* Tschudi, 1838
- Tribus *RHACOPHORINI* Hoffman, 1932 (1858)  
*Chirixalus* Boulenger, 1893  
*Chiromantis* Peters, 1855  
*Polypedates* Tschudi, 1838  
*Rhacophorus* Kuhl & Van Hasselt, 1822
- Superfamily *SOOGLOSSOIDEA* Noble, 1931
- Family *NASIKABATRACHIDAE* Biju & Bossuyt, 2003  
*Nasikabatrachus* Biju & Bossuyt, 2003

Familia SOOGLOSSIDAE Noble, 1931

*Nesomantis* Boulenger, 1909

*Sooglossus* Boulenger, 1906

Epifamilia † TRIADOBATRACHOIDIA Kuhn, 1962

Superfamilia † TRIADOBATRACHOIDEA Kuhn, 1962

Familia † TRIADOBATRACHIDAE Kuhn, 1962

† *Triadobatrachus* Kuhn, 1962

Ordo URODELA Duméril, 1806

Incertae sedis

† *Apricosiren* Evans & McGowan, 2002

† *Bishara* Nessov, 1997

† *Bissektia* Nessov, 1981

† *Comonecturoides* Hecht & Estes, 1960

† *Galverpeton* Estes & Sanchiz, 1982

† *Hylaeobatrachus* Dollo, 1884

† *Jeholotriton* Wang, 2000

† *Kiyatriton* Averianov & Voronkevich, 2002

† *Laccotriton* Gao et al., 1998

† *Marmorerpeton* Evans, Milner & Mussett, 1988

† *Ramonellus* Nevo & Estes, 1969

† *Smerpeton* Gao & Shubin, 2001

Familia † BATRACHOSAURIDIDAE Auffenberg, 1958

† *Batrachosauroides* Taylor & Hesse, 1943

† *Mymbulakia* Nessov, 1981

† *Opisthotriton* Auffenberg, 1961

† *Palaeoproteus* Herre, 1935

† *Parrisia* Denton & O'Neill, 1998

† *Peratosauroides* Naylor, 1981

† *Prodesmodon* Estes, 1964

Familia † PROSIRENIDAE Estes, 1969

† *Prosiren* Goin & Auffenberg, 1958

Familia † SCAPHERPETONTIDAE Auffenberg & Goin, 1959

† *Eoscapherpeton* Nessov, 1981

† *Horezma* Nessov, 1981

† *Lisserpeton* Estes, 1965

† *Piceoerpeton* Meszoely, 1967

† *Scapherpeton* Cope, 1877

Epifamilia CRYPTOBRANCHOIDIA Fitzinger, 1826

Superfamilia CRYPTOBRANCHOIDEA Fitzinger, 1826

Familia CRYPTOBRANCHIDAE Fitzinger, 1826

*Andrias* Tschudi, 1837

† *Aviturus* Gubin, 1991

† *Chumerpeton* Gao & Shubin, 2003

*Cryptobranchus* Leuckart, 1821

† *Ulanurus* Gubin, 1991

Familia HYNOBIIDAE Cope, 1859 (1856)

Subfamilia HYNOBINAE Cope, 1859 (1856)

*Batrachuperus* Boulenger, 1878

*Hynobius* Tschudi, 1838

† *Liaxotriton* Dong & Wang, 1998

- Lua* Zhao & Hu, 1983  
*Onychodactylus* Tschudi, 1838  
*Pachyhynobius* Fei, Qu & Wu, 1983  
† *Parahynobius* Venczel, 1999  
*Pseudohynobius* Fei & Ye, 1983  
*Ranodon* Kessler, 1866  
*Salamandrella* Dybowski, 1870  
Subfamilia *PROTOHYNOBINAE* Fei & Ye, 2000  
*Protohynobius* Fei & Ye, 2000  
Epifamilia † *KARAUIROIDIA* Ivachnenko, 1978  
Superfamilia † *KARAURIOIDEA* Ivachnenko, 1978  
Familia † *KARAURIDAE* Ivachnenko, 1978  
† *Karaurus* Ivachnenko, 1978  
† *Kokartus* Nessov, 1981  
Epifamilia *SALAMANDROIDIA* Goldfuss, 1820  
Incertae sedis  
† *Iridotriton* Evans, Lally, Chure, Elder & Maisano, 2005  
† *Valdotriton* Evans & Mülner, 1996  
Superfamilia *AMBYSTOMATOIDEA* Gray, 1850  
Familia *AMBYSTOMATIDAE* Gray, 1850  
*Ambystoma* Tschudi, 1838  
† *Amphitriton* Rogers, 1976  
Familia *DICAMPTODONTIDAE* Tihen, 1958  
† *Ambystomichnus* Peabody, 1954  
† *Bargmannia* Herre, 1955  
† *Chrysotriton* Estes, 1981  
*Dicamptodon* Strauch, 1870  
† *Geyerella* Herre, 1950  
† *Wolterstorffella* Herre, 1950  
Superfamilia *AMPHIUMOIDEA* Gray, 1825  
Familia *AMPHIUMIDAE* Gray, 1825  
*Amphiuma* Garden, 1821  
† *Paleoamphiuma* Rieppel & Grande, 1998  
† *Proamphiuma* Estes, 1969  
Familia *PLETHODONTIDAE* Gray, 1850  
Subfamilia *HEMIDACTYLINAE* Hallowell, 1856 (1850)  
Tribus *BOLITOGLOSSINI* Hallowell, 1856  
*Batrachoseps* Bonaparte, 1841  
*Bolitoglossa* Dumeril, Bibron & Dumeril, 1854  
*Bradytriton* Wake & Elias, 1983  
*Chiropterotriton* Taylor, 1944  
*Cryptotriton* Garcia-Paris & Wake, 2000  
*Dendrotriton* Wake & Elias, 1983  
*Ixalotriton* Wake & Johnson, 1989  
*Lineatriton* Tanner, 1950  
*Nothotriton* Wake & Elias, 1983  
*Nyctanolis* Elias & Wake, 1983  
*Oedipina* Keferstein, 1868  
*Parvimolge* Taylor, 1944

- Pseudoeurycea* Taylor, 1944  
*Thorius* Cope, 1869
- Tribus *HERMIDACTYLINI* Hallowell, 1856 (1850)  
*Hemidactylum* Tschudi, 1838
- Tribus *SPELERPINI* Cope, 1859  
*Eurycea* Rafinesque, 1822  
*Gyrinophilus* Cope, 1869  
*Pseudotriton* Tschudi, 1838  
*Stereochilus* Cope, 1869
- Subfamilia *PLETHODONTINAE* Gray, 1850
- Tribus *DESMOGNATHINI* Gray, 1850  
*Aneides* Baird, 1849  
*Desmognathus* Baird, 1850  
*Ensatina* Gray, 1850  
*Hydromantes* Gistel, 1848  
*Karsenia* Min, Yang, Bonett, Vieites, Brandon & Wake, 2005  
*Leurognathus* Moore, 1899  
*Phaeognathus* Highton, 1961
- Tribus *PLETHODONTINI* Gray, 1850  
*Plethodon* Tschudi, 1838
- Superfamilia *PROTEOIDEA* Gray, 1825
- Familia *PROTEIDAE* Gray, 1825  
† *Muoproteus* Estes & Darevsky, 1978  
*Necturus* Rafinesque, 1819  
† *Orthophryne* Meyer, 1845  
*Proteus* Laurenti, 1768
- Superfamilia *RHYACOTRITONOIDEA* Tihen, 1958
- Familia *RHYACOTRITONIDAE* Tihen, 1958  
*Rhyacotriton* Dunn, 1920
- Superfamilia *SALAMANDROIDEA* Goldfuss, 1820
- Familia *SALAMANDRIDAE* Goldfuss, 1820  
† *Archaeotriton* Meyer, 1860  
† *Brachycornus* Meyer, 1860  
† *Chelotriton* Pomel, 1853  
*Chioglossa* Bocage, 1864  
*Cynops* Tschudi, 1838  
*Echmornotriton* Nussbaum & Brodie, 1982  
*Euproctus* Gené, 1838  
† *Koalhellia* Herre, 1950  
*Lissotriton* Bell, 1839  
*Lyciasalamandra* Veith & Steinfartz, 2004  
† *Megalotriton* Zittel, 1888  
*Mertensiella* Wolterstorff, 1925  
*Mesotriton* Bolka, 1927  
*Neurergus* Cope, 1862  
*Notophthalmus* Rafinesque, 1820  
† *Oligosemia* Navas, 1922  
*Ommatotriton* Gray, 1850  
*Pachytriton* Boulenger, 1878  
† *Palaeopleurodeles* Herre, 1941

- Paramesotriton* Chang, 1935
- Pleurodeles* Michahelles, 1830
- † *Procynops* Young, 1965
- Salamandra* Laurenti, 1768
- Salamandrina* Fitzinger, 1826
- Taricha* Gray, 1850
- Triturus* Rafinesque, 1815
- Tylosotriton* Anderson, 1871
- Epifamilia *SIRENOIDIA* Gray, 1825
- Superfamilia *SIRENOIDEA* Gray, 1825
- Familia *SIRENIDAE* Gray, 1825
  - † *Habrosaurus* Gilmore, 1928
  - † *Kababisha* Evans, Muir & Werner, 1996
  - † *Noterpeton* Rage, Marshall & Gayet, 1993
  - Pseudobranchius* Gray, 1825
  - Siren* Österdam, 1766
- Superordo *GYMNOPHIONA* Rafinesque-Schmaltz, 1814
- Ordo *GYMNOPHIONA* Rafinesque-Schmaltz, 1814
- Incertae sedis
  - † *Rubricacaecilia* Evans & Sigogneau-Russell, 2001
- Epifamilia *CAECILIOIDIA* Rafinesque-Schmaltz, 1814
- Superfamilia *CAECILIOIDEA* Rafinesque-Schmaltz, 1814
- Familia *CAECILIIDAE* Rafinesque-Schmaltz, 1814
  - † *Apodops* Estes & Wake, 1972
  - Boulengerula* Tornier, 1897
  - Branlotyphlus* Taylor, 1968
  - Caecilia* Linnaeus, 1758
  - Dermophis* Peters, 1879
  - Gegeneophis* Peters, 1879
  - Geotrypetes* Peters, 1880
  - Grandisoma* Taylor, 1968
  - Gymnopus* Peters, 1874
  - Herpele* Peters, 1879
  - Hypogeophis* Peters, 1879
  - Idiocrannum* Parker, 1936
  - Indotyphlus* Taylor, 1960
  - Luetkenotyphlus* Taylor, 1968
  - Microacaecilia* Taylor, 1968
  - Mimostrophonops* Taylor, 1968
  - Oscacaecilia* Taylor, 1968
  - Parvacaecilia* Taylor, 1968
  - Praslinia* Boulenger, 1909
  - Schistometopum* Parker, 1941
  - Siphonops* Wagler, 1830
  - Sylvacaecilia* Wake, 1987
- Familia *ICHTHYOPHIDAE* Taylor, 1968 (1843)
  - Caudacaecilia* Taylor, 1968
  - Ichthyophis* Fitzinger, 1826
- Familia *SCOLECOMORPHIDAE* Taylor, 1969
  - Crotaphatrema* Nussbaum, 1985
  - Scolecormorphus* Boulenger, 1883

- Familia *TYPHLONECTIDAE* Taylor, 1968  
*Aitretochoana* Nussbaum & Wilkinson, 1995  
*Chthonerpeton* Peters, 1879  
*Nectocaecilia* Taylor, 1968  
*Potomotyphlus* Taylor, 1968  
*Typhlonectes* Peters, 1879
- Familia *URAEOTYPHLIDAE* Nussbaum, 1979  
*Uraeotyphlus* Peters, 1879
- Superfamilia *RHINATREMATOIDEA* Nussbaum, 1977  
 Familia *RHINATREMATIDAE* Nussbaum, 1977  
*Epicrionops* Boulenger, 1883  
*Rhinatrema* Duméril & Bibron, 1841
- Epifamilia † *EOCAECILIOIDEA* Jenkins & Walsh, 1993  
 Superfamilia † *EOCAECILIOIDEA* Jenkins & Walsh, 1993  
 Familia † *EOCAECILIIDAE* Jenkins & Walsh, 1993  
 † *Eocaecilia* Jenkins & Walsh, 1993

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## ***Amphibia Mundi*. 1.2. Recent amphibians: generic and infrageneric taxonomic additions (1981-2002)**

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The present list concerns additions in the taxonomy of **NEOBATRACHI** (i.e., recent amphibians, taxa represented by at least one species in the currently living fauna of our planet: see DUBOIS, 2004), for taxa at rank genus and below, published before 2003 after the three lists of recent amphibians taxa of FROST (1985), DUELLMAN (1993) and GLAW et al (1998) and the two lists of fossil taxa of this group of ESTES (1981) and SANCHIZ (1998), or absent from these five lists. The period covered by these additions starts in 1981 for taxa of fossil gymnophiones and urodeles, in 1993 for taxa of recent amphibians, and in 1998 for taxa of fossil anurans. It ends on 31 December 2002 for all these groups. We tried to include all new nomina that had been overlooked in the lists cited above, or for which we identified errors in these lists. However, nomina of lower recent taxa anterior to 1993 not considered in FROST's (1985) and DUELLMAN's (1993) checklists (i.e., most synonyms and most nomina of valid subgenera and subspecies) were not included, as their inclusion would have increased the present list by hundreds, if not thousands, of nomina. Most of these nomina anterior to 1<sup>st</sup> January 1970 are to be found in GORHAM (1974), but a gap exists for the period 1970-1992.

Only new nomina are listed, and taxonomic or nomenclatural changes other than additions (e.g., synonymisation or revaluation of nomen, change of rank or higher taxonomic allocation of taxon, subsequent type designation, first reviser action, orthographic emendation) are not considered here. The new nomina are listed below by alphabetical order under families and subfamilies according to the general taxonomic frame of DUBOIS (2005a).

New nomina of the species-series (i.e., species and subspecies, DUBOIS, 2000, 2005b-c) are printed in *lower case italics*, followed by the *country* of the *type-locality* of the taxon. Although many species are described on the basis of specimens collected in a single locality or a few neighbouring localities (see Dubois, 2004: 24), this is not a general rule, and at any rate mention of the country of the type locality is not to be construed as the known or inferred geographical distribution of the taxon. In most cases, only the name of the country is given, but for a few countries that are either very large (Australia, Brazil, Canada, China, India, USA) or that cover several important land masses (Indonesia, Malaysia), the first-level administrative division (province, state, etc.) is also given. Names of countries are given in English, but those of first-level administrative divisions are in the language of the country, even when a common English translation exists.

New nomina of the genus-series (i.e., genus or subgenus, DUBOIS, 2000, 2005b-c) are printed in **lower case bold italics**, followed by the nomina of their *type-species* and the *country* of the *type locality* of the latter (not the known or inferred geographical distribution of the taxon).

The nomina of fossil taxa are preceded by the sign †. For such taxa, beside the country of the type-locality, the *stratigraphical level* of the latter (i.e., not the known or inferred stratigraphical distribution of the taxon) is provided.

Nomenclaturally unavailable nomina (i.e., nomina nuda and other kinds of anoplonyms, as defined by DUBOIS, 2000) are presented below "between quotation marks".

In zoological taxonomy, among two synonymous nomina, the valid one is the first published (rule of priority). For this reason, knowing the actual date of public distribution (publication date) of a book or paper is an important information. Below, publication dates as indicated on the works themselves are accepted as true in the absence of contradictory information. Whenever more precise information is available, the actual date of publication, either exact [day] or rough [month], is added between square brackets after the year at the beginning of reference. The source of this information is given, also between square brackets, at the end of the reference. When only incomplete information is available (e.g., evidence that a work was published later than its printed date, but no precise publication date), this information is also given between square brackets at the end of the reference. Publication dates as given on the covers of some journals or reprints are not accepted as genuine evidence of exact publication date, because the exact date at which a publication was actually distributed can be known with certainty only afterwards (e.g., a planned date of distribution can have to be modified because of unexpected delays, strike, etc.).

We did our best to provide the complete titles of publications and the names of administrative divisions of countries in their original languages, as well as the names of authors, with proper accents and other diacritic marks, e.g. using "ö" and not "oe" or "o", "ñ" and not "n", or "ž" and not "z". Such a respect for persons and languages other than English is becoming rare in many journals and databases, even major ones. We would appreciate receiving corrections from readers if mistakes in this respect remain in the present document. Titles of works were presented under their English translation only when the title in the original language was not written in Roman alphabet.

This list only provides information on new nomina *published* in the period 1981-2002 for amphibian taxa then considered new. Since their original description, some of these nomina have already been synonymized, or have had a change of nomenclatural rank (subspecies raised to species rank, or the reverse, etc.), or have been shown to apply to taxa that were wrongly allocated to higher taxa (e.g., *Scutiger mokokchungensis* Das & Chanda, 2000 (*PELOBIIDAE, MEGOPHYRYNAE*), which was later shown to be a member of the *RANIDAE DICROGLOSSINAE*). In the list below, only the original combination (including its original misspellings if present) is given, not the subsequent synonymisation or change of status. However, as nomina are listed under family series taxa, a few taxa, for which wrong taxonomic allocation is certain, were listed under their proper taxon, albeit in their original combination, in order not to create any new combination in the present work. Reference to evidence supporting the taxonomic transfer, when relevant, is provided as a "Comment" after the nomen. In a few cases, no previous published statement is known to exist, so the responsibility of the transfer is acknowledged between square brackets (e.g., for *Rana charlesdarwini*).

A few nomina were initially published with "incorrect original spellings" as defined by Art. 32.4 of the *Code*. For such nomina, we provide the "correct original spelling" according to Art. 32.5 of the *Code*, with reference to the first use of this spelling if the latter has already been corrected. This applies to species-series nomina misspelled because of wrong agreement in gender with the generic nomen (Art. 31.2), but not to nomina unusually formed from personal names (Art. 31.1), for reasons explained in detail by CROCHET & DUBOIS (244-496). A few other nomina were initially published with "multiple original spellings" as defined by Art. 19.3 of the *Code*. In such cases, we provide information of the

"correct original spelling" chosen by the first-reviser (Art. 24 2 3 and 32 2 1), and, if no such first-reviser action has yet been taken, we provide it.

The present list will be regularly followed by updates published in *Amphibia Mundi*. Although we did our best to collect all the available information on amphibian taxonomic novelties published from 1981 to 2002 that had not been provided in the five lists mentioned above, no doubt we overlooked a number of publications. This is unavoidable, as even the *Zoological Record*, with an experience of one and a half century, still overlooks a large proportion of publications and new nomina (BOUCHET & ROCROI, 1992, 1993). Readers and users of this first list are therefore encouraged to send us corrections and additions. This new information will be included in our subsequent lists. Furthermore, in order to avoid our overlooking their forthcoming works, all amphibian taxonomists worldwide are strongly encouraged to send spontaneously a copy of each of their publications (books and reprints) having taxonomic, nomenclatural or distributional contents to the coordinator of *Amphibia Mundi*, Alain DUBOIS (Reptiles & Amphibiens, Muséum national d'Histoire naturelle, 25 rue Cuvier, 75005 Paris, France). The works so received will be deposited in the public herpetological library of the Paris Museum, where they will be freely available to all visitors and library users.

# Classis AMPHIBIA De Blainville, 1816

## Subclassis NEOBATRACHII Sarasin & Sarasin, 1890

### Superordo † ALLOCAUDATA Fox & Naylor, 1982

#### Ordo † ALLOCAUDATA Fox & Naylor, 1982

##### Epifamilia † ALBANERPETONTOIDIA Estes & Hoffstetter, 1976

##### Superfamilia † ALBANERPETONTOIDIA Estes & Hoffstetter, 1976

##### Familia † ALBANERPETONTIDAE Estes & Hoffstetter, 1976

† *Albanerpeton arthridion* Fox & Naylor, 1982. USA (Texas). Cretaceous.

† *Albanerpeton cyfellii* Gardner, 1999. – USA (Utah). Cretaceous.

† *Albanerpeton galaktion* Fox & Naylor, 1982. – Canada (Alberta). Cretaceous.

† *Albanerpeton gracilis* Gardner, 2000. Canada (Alberta). Cretaceous.

† *Celtdedens* McGowan & Evans, 1995. **Type-species**, by original designation: † *Triton megacephalus* Costa, 1864. – Italy. Cretaceous.

† *Celtdedens ibericus* McGowan & Evans, 1995. Spain. Cretaceous

† *Nukusurus* Nessov, 1981. **Type-species**, by original designation: † *Nukusurus insuetus* Nessov, 1981. – Uzbekistan. Cretaceous.

† *Nukusurus insuetus* Nessov, 1981. – Uzbekistan. Cretaceous.

† *Nukusurus sodalis* Nessov, 1997. – Uzbekistan. Cretaceous

### Superordo BATRACHIA Brongniart, 1800

#### Ordo ANURA Duméril, 1806

##### Incertae sedis

† *Avitabatrachus* Baez, Trueb & Calvo, 2000. – **Type-species**, by original designation: † *Avitabatrachus ulana* Baez, Trueb & Calvo, 2000. – Argentina. Cretaceous.

- † *Avitabatrachus uhana* Baez, Trueb & Calvo, 2000 – Argentina. Cretaceous.
- † *Mesophryne* Gao & Wang, 2001. – **Type-species**, by original designation: † *Mesophryne beipiaoensis* Gao & Wang, 2001. – China (Liaoning). Mesozoic.
- † *Mesophryne beipiaoensis* Gao & Wang, 2001. – China (Liaoning). Mesozoic.
- † *Nezpercius* Blob, Carrano, Rogers, Forster & Espinoza, 2001. **Type-species**, by original designation: † *Nezpercius dodsoni* Blob, Carrano, Rogers, Forster & Espinoza, 2001. USA (Montana). Cretaceous.
- † *Nezpercius dodsoni* Blob, Carrano, Rogers, Forster & Espinoza, 2001 – USA (Montana). Cretaceous
- † *Sunnybatrachus* Evans & McGowan, 2002 – **Type-species**, by original designation. † *Sunnybatrachus purbeckensis* Evans & McGowan, 2002. – England. Cretaceous.
- † *Sunnybatrachus purbeckensis* Evans & McGowan, 2002. – England. Cretaceous.
- † *Thaumastosaurus wardi* Holman & Harrison, 2002. – England. Eocene.

#### Epifamilia BOMBINATOROIDIA Gray, 1825

#### Superfamilia BOMBINATOROIDEA Gray, 1825

#### Familia BOMBINATORIDAE Gray, 1825

#### Incertae sedis

- † *Callobatrachus* Wang & Gao, 1997. – **Type-species**, by original designation: † *Callobatrachus sanyanensis* Wang & Gao, 1997 – China (Liaoning) Jurassic-Cretaceous boundary.
- † *Callobatrachus sanyanensis* Wang & Gao, 1997 – China (Liaoning). Jurassic-Cretaceous boundary.
- † *Latoglossus* Hossini, 2000. **Type-species**, by original designation: † *Latoglossus zraus* Hossini, 2000. – Morocco. Miocene.
- † *Latoglossus zraus* Hossini, 2000. – Morocco. Miocene

#### Subfamilia ALYTINAE Fitzinger, 1843

*Alytes obstetricans peranax* Garcia-Paris & Martinez-Solano, 2001. – Spain.

#### Subfamilia BOMBINATORINAE Gray, 1825

*Bombina ichuanensis* Ye & Fei in Ye, Fei & Yu, 1993 – China (Hubei). **Comment.** Species redescribed as new by Ye & Fei (1994a), with the same nomen and authors (see Ye, Fei & Hu, 1993: 364), but nomen is available as from Ye, Fei & Hu (1993: 113). Not being mentioned in the original publication of the nomen, the “holotype” designated by Ye & Fei (1994a: 22, 25) is in fact the lectotype of this nominal species.

#### Subfamilia † GOBIATINAE Roček & Nesson, 1993

- † *Cretasalia* Gubin, 1999 **Type-species**, by original designation: *Cretasalia tsybinii* Gubin, 1999 – Mongolia. Cretaceous
- † *Cretasalia tsybinii* Gubin, 1999. – Mongolia. Cretaceous.
- † “*Gobiates*” Špinar, 1983 – Mongolia. Cretaceous. **Comment:** Nomenclaturally unavailable genus-series nomen, as published without designation of a type species. Nomen made nomenclaturally available in ŠPINAR & TATARINOV (1986).

Epifamilia *LEIOPELMATOIDEA* Mivart, 1869

Superfamilia *LEIOPELMATOIDEA* Mivart, 1869

Familia *LEIOPELMATIDAE* Mivart, 1869

Subfamilia *LEIOPELMATINAE* Mivart, 1869

*Leiopelma pakeka* Bell, Daugherty & Hay, 1998. – New Zealand.

Epifamilia *PELOBATOIDEA* Bonaparte, 1850

Superfamilia *PELOBATOIDEA* Bonaparte, 1850

Familia *PELOBATIDAE* Bonaparte, 1850

Incertae sedis

† *Liaobatrachus* Ji Shu'an & Ji Qiang, 1998 **Type-species**, by original designation † *Liaobatrachus grabaui* Ji Shu'an & Ji Qiang, 1998. China (Liaoning). Mesozoic  
† *Liaobatrachus grabaui* Ji Shu'an & Ji Qiang, 1998 – China (Liaoning) Mesozoic.

Subfamilia *MEGOPHRYINAE* Noble, 1931 (1850)

Tribus *LEPTOBRACHINI* Dubois, 1983

*Leptobranchium banae* Lathrop, Murphy, Orlov & Ho, 1998a. Vietnam.

*Leptobranchium hainanensis* Ye & Fei in YE, FEI & HU, 1993. – China (Hainan).

*Leptobranchium smithi* Matsui, Nabhitabhata & Panha, 1999. – Thailand

*Leptobranchium xanthospilum* Lathrop, Murphy, Orlov & Ho, 1998a. – Vietnam.

*Leptobranchium (Vibrissaphora) echinatum* Dubois & Ohler, 1998. – Vietnam.

*Leptolalax alpinus* Fei, Ye & Li in FEI, YE & HUANG, 1991. China (Yunnan). **Comment.** Species redescribed as new, with the same nomen, authors and holotype, in FEI, YE & LI (1992), but nomen is available as from FEI, YE & HUANG (1991).

*Leptolalax hui* Fei & Ye in FEI, YE & HUANG, 1991. – China (Fujian).

*Leptolalax nahangensis* Lathrop, Murphy, Orlov & Ho, 1998b. – Vietnam.

*Leptolalax phuvialis* Ohler, Marquis, Swan & Grosjean, 2000. – Vietnam.

*Leptolalax sungi* Lathrop, Murphy, Orlov & Ho, 1998b. Vietnam

*Leptolalax tuberosus* Inger, Orlov & Darevsky, 1999. Vietnam.

*Leptolalax ventripunctatus* Fei, Ye & Li in FEI, YE & HUANG, 1991 China (Yunnan). **Comment.** Species redescribed as new, with the same nomen, authors and holotype, in FEI, YE & LI (1992), but nomen is available as from FEI, YE & HUANG (1991).

*Oreolalax grandisus* Fei, Ye & Chen in FEI, YE & HUANG, 1991 China (Yunnan) **Comment.** Species redescribed as new, with the same nomen, authors and holotype, in FEI, YE & CHEN (1992), but nomen is available as from FEI, YE & HUANG (1991)

*Oreolalax nanyangensis* Fei & Ye in FEI, YE & LI, 1999. – China (Yunnan).

*Scutiger (Aelurophryne) bhutanensis* Delorme & Dubois, 2001. – Bhutan.

*Scutiger (Aelurophryne) julongensis* Fei, Ye & Jiang in FEI, JIANG, YE & CHEN, 1996. – China (Sichuan)  
*Scutiger (Oreolalax) xiangchengensis degenicus* Yang & He, 1990. – China (Yunnan).

Tribus *MEGOPHRYINI* Noble, 1931 (1850)

- Brachytarsophrys chuannanensis* Fei, Ye & Yang in FEI & YE, 2001a. – China (Sichuan).  
*Brachytarsophrys platyparietus* Rao & Yang, 1997b. – China (Yunnan).  
*Megophrys caudoprocta* Shen, 1994. – China (Hunan).  
*Megophrys daweiensis* Rao & Yang, 1997a. – China (Yunnan).  
*Megophrys glandulosa* Fei, Ye & Huang, 1991. China (Yunnan). **Comment:** Species redescribed as new, with the same nomen, authors and holotype, in FEI, YE & HUANG (1992), but nomen is available as from FEI, YE & HUANG (1991).  
*Megophrys mangshanensis* Fei & Ye in FEI, YE & HUANG, 1991. – China (Hunan). **Comment:** Species redescribed as new, with the same nomen, authors and holotype, by FEI, YE & HUANG (1992), but nomen is available as from FEI, YE & HUANG (1991).  
*Megophrys minor binchuanensis* Ye & Fei, 1995. – China (Yunnan).  
*Megophrys shuichengensis* Tian, Gu & Sun, 2000. – China (Guizhou).  
*Megophrys wawuensis* Fei, Jiang & Zheng in FEI & YE, 2001a. China (Sichuan). **Comment:** Species redescribed in detail by JIANG, FEI, ZHENG, YE, XIE & CHEN (2002).  
*Megophrys wuliangshanensis* Ye & Fei, 1995. – China (Yunnan).  
*Megophrys wushanensis* Ye & Fei, 1995. – China (Sichuan).  
*Megophrys zhang* Ye & Fei, 1993. – China (Xizang).  
*Megophrys (Xenophrys) auraleus* Ohler, Swan & Daltry, 2002. – Cambodia.  
***Panophrys*** Rao & Yang, 1997. **Type-species**, by original designation *Megophrys omeimontus* Liu, 1950. – China (Sichuan).

Subfamilia *PELODYTINAE* Bonaparte, 1850

*Pelodytes ibericus* Sánchez-Herreraiz, Barbadillo, Machordom & Sanchiz, 2000. Spain.

Epifamilia *PIPOIDIA* Gray, 1825

Superfamilia *PIPOIDEA* Gray, 1825

Familia † *PALAEOBATRACHIDAE* Cope, 1865

† *Palaeobatrachus robustus* Hossini & Rage, 2000. France. Miocene.

Familia *PIPIDAE* Gray, 1825

Subfamilia *DACTYLETHRINAE* Hogg, 1838

- † *Pachybatrachus* Baez & Rage, 1998. **Type-species**, by original designation: † *Pachybatrachus taqueti* Baez & Rage, 1998. Niger. Cretaceous.  
 † *Pachybatrachus taqueti* Baez & Rage, 1998. – Niger. Cretaceous



† *Shelama laurenti* Baez & Pugener, 1998. – Argentina. Palaeogene.

† *Xenopus arabiensis* Henrici & Báez, 2001. – Yemen. Oligocene.

#### Familia RHINOPHYRINIDAE Günther, 1858

† *Rhadinosteus* Henrici, 1998. **Type-species**, by original designation: † *Rhadinosteus parvus* Henrici, 1998. – USA (Utah). Jurassic.

† *Rhadinosteus parvus* Henrici, 1998. – USA (Utah). Jurassic.

#### Epifamilia RANOIDA Rafinesque-Schmaltz, 1814

#### Superfamilia HYLOIDEA Rafinesque, 1815

#### Familia BUFONIDAE Gray, 1825

*Adenomus dasi* Manamendra-Arachchi & Pethiyagoda, 1998. – Sri Lanka.

*Ansonia anous* Inger, Tan & Yambun, 2001. – Malaysia (Sabah)

*Ansonia inthanon* Matsui, Nabhitabhata & Panha, 1998. – Thailand.

*Ansonia kambhai* Ravichandran & Pillai, 1996. – India (Maharashtra).

*Atelopus angelito* Ardila-Robayo & Ruiz-Carranza, 1998. – Colombia

*Atelopus guanapo* Coloma, 2002. – Ecuador.

*Atelopus guttarraensis* Osorno-Muñoz, Ardila-Robayo & Ruiz-Carranza, 2001. – Colombia.

*Atelopus lozanoi* Osorno-Muñoz, Ardila-Robayo & Ruiz-Carranza, 2001. – Colombia

*Atelopus mandingues* Osorno-Muñoz, Ardila-Robayo & Ruiz-Carranza, 2001. – Colombia.

*Atelopus mono-hernandezii* Ardila-Robayo, Osorno-Muñoz & Ruiz-Carranza, 2002. – Colombia.

**Comment** The original spelling of the epithet of this new species is incorrect and should be emended into *monohernandezii* according to Art. 32.5.2.3 of the Code.

*Atelopus nanay* Coloma, 2002. – Ecuador.

*Atelopus petruzzii* Ardila-Robayo, 1999. – Colombia

*Atelopus reticulatus* Lötters, Haas, Schick & Böhme, 2002. – Peru.

*Atelopus siranus* Lötters & Henzl, 2000. – Peru

*Atelopus sonsonensis* Vélez-Rodríguez & Ruiz-Carranza, 1997. – Colombia.

*Bufo amietii* Tandy & Perret, 2000. – Ivory Coast.

*Bufo chavini* Lehr, Kohler, Aguilar & Ponce, 2001. – Peru.

*Bufo cristinae* Vélez-Rodríguez & Ruiz-Carranza, 2002. – Colombia

*Bufo danatensis taxkorensis* Fei, Ye & Huang in Fei, Ye, Huang & Chen, 1999. – China (Xinjiang).

*Bufo jimi* Stevaux, 2002. – Brazil (Bahia).

*Bufo kumquat* Das & Lim, 2001. – Malaysia (West Malaysia).

*Bufo leucomyos* McCranie & Wilson, 2000. – Honduras.

*Bufo melanostictus hazarensis* Khan, 2001. – Pakistan.

*Bufo noellerti* Manamendra-Arachchi & Pethiyagoda, 1998. – Sri Lanka

*Bufo pseudoraddaei baturae* Stock, Schmid, Steinlein & Grosse, 1999. – Pakistan.

*Bufo sclerocephalus* Mijares-Urrutia & Arends, 2001. – Venezuela

*Bufo stantoni* Lötters & Kohler, 2000. – Bolivia.

*Bufo tatei* Rodel & Ernst, 2000. – Ivory Coast.

*Bufo zamdaensis* Fei, Ye & Huang in Fei, Ye, Huang & Chen, 1999. – China (Xizang).

**Churamiti** Channing & Stanley, 2007. **Type-species**, by original designation *Churamiti maridadi* Channing & Stanley, 2002. – Tanzania

*Churamiti maridadi* Channing & Stanley, 2002. – Tanzania.

*Melanophryniscus klappenbachii* Prigioni & Langone, 2000. – Argentina.

- Melanophryniscus simplex* Caramaschi & Cruz, 2002. Brazil (Santa Catarina).  
*Melanophryniscus spectabilis* Caramaschi & Cruz, 2002. Brazil (Santa Catarina).  
*Nectophrynoides asperginis* Poynton, Howell, Clarke & Lovett, 1999. – Tanzania.  
*Rhampophryne ruizi* Grant, 2000. – Colombia  
*Stephopaedes howelli* Poynton & Clarke, 1999. – Tanzania.  
*Stephopaedes usambarae* Poynton & Clarke, 1999. – Tanzania  
 “*Torrentophryne*” Rao & Yang, 1994. China (Yunnan). **Comment.** Nomenclaturally unavailable genus-series nomen, as published without designation of a type-species.  
*Torrentophryne* Yang in YANG, LIU & RAO, 1996 – **Type-species**, by original designation *Torrentophryne aspinia* Yang & Rao, 1996. – China (Yunnan).  
*Torrentophryne aspinia* Rao & Yang, 1994. China (Yunnan). – **Comments:** (1) Although published combined with a nomenclaturally unavailable genus-series nomen, this specific nomen is available as the *Code* expressly states that the generic nomen with which a new specific nomen must be combined “need not be valid or even available” (ANONYMOUS, 1999: Art. 11.9.3.1) (2) Species redescribed as new by YANG & RAO in YANG, LIU & RAO (1996), with the same nomen but with a different order of names of authors, but nomen is available as from RAO & YANG (1994). Not being mentioned in the original publication of the nomen, the “holotype” designated by YANG & RAO in YANG, LIU & RAO (1996) is in fact the lectotype of this nominal species.  
 “*T[orrentophryne] tuberculatus*” Rao & Yang, 1994. – Nomen nudum  
*Torrentophryne tuberospinia* Yang & Liu in YANG, LIU & RAO, 1996. China (Yunnan). – **Comment:** Specific nomen misspelled *tuberospina* in GLAW et al. (1998).  
*Wölkstorffina chirioti* Boistel & Amiet, 2001. – Cameroon.

#### Familia CENTROLENIDAE Taylor, 1951

- Centrolene papillahalicum* Noonan & Harvey, 2000. Guyana.  
*Cochranella rosada* Ruiz-Carranza & Lynch, 1997. – Colombia  
*Cochranella spilota* Ruiz-Carranza & Lynch, 1997. – Colombia  
*Hyalinobatrachium crurifasciatum* Myers & Donnelly, 1997. – Venezuela  
*Hyalinobatrachium eccentricum* Myers & Donnelly, 2001. – Venezuela.  
*Hyalinobatrachium esmeralda* Ruiz-Carranza & Lynch, 1998. – Colombia.  
*Hyalinobatrachium guararepanensis* Señaris, 2001. – Venezuela.  
*Hyalinobatrachium ibama* Ruiz-Carranza & Lynch, 1998. – Colombia  
*Hyalinobatrachium mondolfii* Señaris & Ayarzagüena, 2002a. – Venezuela  
*Hyalinobatrachium nouraguensis* Lescure & Marty, 2000. – French Guyana.  
*Hyalinobatrachium ruedai* Ruiz-Carranza & Lynch, 1998. – Colombia.

#### Familia DENDROBATIDAE Cope, 1865 (1850)

- Colostethus alexandrei* Grant & Rodríguez, 2001. – Peru  
*Colostethus atopoglossus* Grant, Humphrey & Myers, 1997. – Colombia.  
*Colostethus ayarzagüenai* La Marca, 1996. – Venezuela  
*Colostethus borjai* Ruervo & Serna, 1995. – Colombia  
*Colostethus cacerensis* Ruervo & Serna, 1995. – Colombia.  
*Colostethus caeruleodactylus* Lima & Caldwell, 2001. – Brazil (Amazonas).  
*Colostethus cepedai* Morales, 2002. – Colombia.  
*Colostethus conspicuus* Morales, 2002. – Peru.  
*Colostethus crombiei* Morales, 2002. – Brazil (Para).  
*Colostethus dysprosium* Ruervo & Serna, 1995. – Colombia.

- Colostethus erasmios* Rivero & Serna, 1995. – Colombia.  
*Colostethus excisus* Rivero & Serna, 1995. – Colombia.  
*Colostethus fascianigrus* Grant & Castro, 1998. – Colombia.  
*Colostethus fratusenescus* Morales, 2002. – Ecuador.  
*Colostethus fuscilius* Morales, 2002. – Brazil (Amazonas).  
*Colostethus gasconi* Morales, 2002. – Brazil (Amazonas).  
*Colostethus guanayensis* La Marca, 1996. – Venezuela.  
*Colostethus insperatus* Morales, 2002. – Ecuador.  
*Colostethus larandinus* Yástiz, 1991. – Venezuela.  
*Colostethus lynchi* Grant, 1998. – Colombia.  
*Colostethus masniger* Morales, 2002. – Brazil (Pará).  
*Colostethus melanolaemus* Grant & Rodríguez, 2001. – Peru.  
*Colostethus murispianensis* La Marca, 1996. – Venezuela.  
*Colostethus ornatus* Morales, 2002. – Peru.  
*Colostethus parmae* La Marca, 1996. – Venezuela.  
*Colostethus picachos* Ardila-Robayo, Acosta-Galvis & Coloma, 2000. – Colombia.  
*Colostethus praderiei* La Marca, 1996. – Venezuela.  
*Colostethus pseudopalmatus* Rivero & Serna, 1995. – Colombia.  
*Colostethus ramirezii* Rivero & Serna, 1995. – Colombia.  
*Colostethus roraima* La Marca, 1996. – Venezuela.  
*Colostethus saltuarius* Grant & Ardila-Robayo, 2002. – Colombia.  
*Colostethus sumtuosus* Morales, 2002. – Brazil (Pará).  
*Colostethus tamacuarensis* Myers & Donnelly, 1997. – Venezuela.  
*Colostethus tepuyensis* La Marca, 1996. – Venezuela.  
*Colostethus undulatus* Myers & Donnelly, 2001. – Venezuela.  
*Colostethus vanzolinii* Morales, 2002. – Brazil (Amazonas).  
*Colostethus wayuu* Acosta, Cuentas & Coloma, 2000. – Colombia.  
**Cryptophyllobates** Lötters, Jungfer & Widmer, 2000. **Type-species**, by original designation:  
*Phyllobates azureiventris* Kneller & Henle, 1985. – Peru.  
*Dendrobates amazonicus* Schulte, 1999. – Peru.  
*Dendrobates claudiae* Jungfer, Lötters & Jörgens, 2000. – Panama.  
*Dendrobates duellmani* Schulte, 1999. – Peru.  
*Dendrobates flavovittatus* Schulte, 1999. – Peru.  
*Dendrobates imitator intermedius* Schulte, 1999. – Peru.  
*Dendrobates imitator yurimaguensis* Schulte, 1999. – Peru.  
*Dendrobates rubrocephalus* Schulte, 1999. – Peru.  
*Epipedobates plampaleae* Morales & Velasco, 1998. – Peru.  
*Epipedobates pongoensis* Schulte, 1999. – Peru.  
*Epipedobates simulans* Myers, Rodríguez & Icochea, 1998. – Peru.  
*Mannophryne caquetio* Mijares-Urrutia & Arends R., 1999b. – Venezuela.  
*Mannophryne lamarcai* Mijares-Urrutia & Arends R., 1999a. – Venezuela.

#### Familia HYLIDAE Rafinesque, 1815

##### Subfamilia HEMIPIRACHTINAE Peters, 1862

- Gastrotheca stictopleura* Duellman, Lehr & Aguilar, 2001. – Peru.  
*Hemiphractus heloi* Sheil & Mendelson, 2001. – Peru.  
*Stefania ackawao* MacCulloch & Lathrop, 2002. – Guyana.

- Stefania ayangannae* MacCulloch & Lathrop, 2002. – Guyana.  
*Stefania coxi* MacCulloch & Lathrop, 2002. – Guyana.  
*Stefania oculosa* Señaris, Ayarzagüena & Gorzula, 1996. – Venezuela.  
*Stefania percrissata* Señaris, Ayarzagüena & Gorzula, 1996. – Venezuela.  
*Stefania riveroi* Señaris, Ayarzagüena & Gorzula, 1996. – Venezuela.  
*Stefania satelles* Señaris, Ayarzagüena & Gorzula, 1996. – Venezuela.  
*Stefania schuberti* Señaris, Ayarzagüena & Gorzula, 1996. – Venezuela.  
*Stefania tamacuarina* Myers & Donnelly, 1997. – Venezuela.

#### Subfamilia *HYLINAE* Rafinesque, 1815

- Hyla abdita* Campbell & Duellman, 2000. – Mexico.  
*Hyla amethothalame* Canseco-Márquez, Mendelson & Gutierrez-Mayen, 2002. Mexico.  
*Hyla amicorum* Mijares Urrutia, 1998. – Venezuela.  
*Hyla annectans chuanxiensis* Ye & Fei in Ye, Fei, Li & Li, 2000. – China (Sichuan).  
*Hyla annectans jingdongensis* Ye & Fei in Ye, Fei, Li & Li, 2000. China (Yunnan). **Comment.** This new nomen appears under two different spellings in the original publication: *jingdongensis* (once in p. 88, twice in p. 89, twice in p. 91, twice in p. 93) and *jindongensis* (once in p. 89). These spellings are “multiple original spellings” according to the *Code*. Acting as first revisers, we hereby choose the spelling *jingdongensis* as “correct original spelling” of this nomen.  
*Hyla annectans tengchongensis* Ye, Fei & Li in Ye, Fei, Li & Li, 2000. China (Yunnan). **Comment.** This new nomen appears under three different spellings in the original publication: *tengchongensis* (once in p. 88, twice in p. 89, once in p. 90, once in p. 91, once in p. 93), *tangchongensis* (once in p. 91) and *tenchongensis* (once in p. 93). These spellings are “multiple original spellings” according to the *Code*. Acting as first revisers, we hereby choose the spelling *tengchongensis* as “correct original spelling” of this nomen.  
*Hyla annectans wulingensis* Shen, 1997. – China (Hunan).  
*Hyla araguaya* Napoli & Caramaschi, 1998. – Brazil (Mato Grosso).  
*Hyla burtii* Caramaschi & Cruz, 1999. – Brazil (Minas Gerais).  
*Hyla cachumbo* Napoli & Caramaschi, 1999b. – Brazil (Para).  
*Hyla calthula* Ustach, Mendelson, McDiarmid & Campbell, 2000. – Mexico.  
*Hyla cerradenensis* Napoli & Caramaschi, 1998. – Brazil (Mato Grosso do Sul).  
*Hyla cruzi* Pombal & Bastos, 1998. – Brazil (Goiás).  
*Hyla cyclada* Campbell & Duellman, 2000. – Mexico.  
*Hyla delarivai* Kohler & Lotters, 2001b. – Bolivia.  
*Hyla dendrophasma* Campbell, Smith & Acevedo, 2000. – Guatemala.  
*Hyla ehaneae* Napoli & Caramaschi, 2000. – Brazil (Mato Grosso do Sul).  
*Hyla ericae* Caramaschi & Cruz, 2000. – Brazil (Goiás).  
*Hyla gaucheri* Lescure & Marty, 2000. – French Guyana.  
*Hyla jimi* Napoli & Caramaschi, 1999a. – Brazil (São Paulo).  
*Hyla joannae* Köhler & Lotters, 2001a. – Bolivia.  
*Hyla nephila* Mendelson & Campbell, 1999. – Mexico.  
*Hyla palaestes* Duellman, De la Riva & Wild, 1997. – Peru.  
*Hyla phaeopleura* Caramaschi & Cruz, 2000. – Brazil (Goiás).  
*Hyla psarosoma* Campbell & Duellman, 2000. – Mexico.  
*Hyla pseudomeridiana* Cruz, Caramaschi & Dias, 2000. – Brazil (Rio de Janeiro).  
*Hyla ravnai* Caramaschi, Napoli & Bernardes, 2001. – Brazil (Minas Gerais).  
*Hyla rhea* Napoli & Caramaschi 1999a. – Brazil (São Paulo).

*Hyla rhythmicus* Señaris & Ayarzagüena, 2002b – Venezuela **Comment:** The original spelling of the epithet of this new species is incorrect and should be emended into *rhythmica* according to Art. 31.2 of the Code.

*Hyla simplex hamanensis* Fei & Ye, 2000b. – China (Hanan).

*Hyla stenocephala* Caramaschi & Cruz, 1999. – Brazil (Minas Gerais).

*Hyla yaracuyana* Mijares-Urrutia & Rivero, 2000 – Venezuela.

*Osteocephalus ayarzagüenai* Gorsula & Señaris, 2000. – Venezuela.

*Osteocephalus deridens* Jungfer, Ron, Seipp & Almendáriz, 2000. – Ecuador.

*Osteocephalus exophthalmus* Smith & Noonan, 2001. – Guyana.

*Osteocephalus fuscifacies* Jungfer, Ron, Seipp & Almendáriz, 2000. – Ecuador

*Osteocephalus heyeri* Lynch, 2002. – Colombia.

*Osteocephalus leoniae* Jungfer & Lehr, 2001. – Peru.

*Osteocephalus mutator* Jungfer & Hodl, 2002 – Ecuador

*Osteocephalus yasuni* Ron & Pramuk, 2000. – Ecuador.

*Plectrohyla exquisita* McCranie & Wilson, 1998. – Honduras.

*Plectrohyla psiloderma* McCranie & Wilson, 1999a – Honduras.

*Pseudis cardosoi* Kwet, 2000. – Brazil (Rio Grande do Sul)

*Pseudis tocantins* Caramaschi & Cruz, 1998. – Brazil (Tocantins).

*Ptychohyla acrochorda* Campbell & Duellman, 2000. – Mexico.

*Ptychohyla zophodes* Campbell & Duellman, 2000 – Mexico.

*Scinax arduous* Peixoto, 2002. – Brazil (Espírito Santo)

*Scinax jolyi* Lescure & Marty, 2000. – French Guyana.

***Tepuihyla*** Ayarzagüena, Señaris & Gorsula, 1993 – **Type-species**, by original designation *Hyla rodriguezi* Rivero, 1968. – Venezuela.

*Tepuihyla celsae* Mijares-Urrutia, Manzanilla-Puppo & La Marca, 2000 – Venezuela.

***Xenohyla*** Izecksohn, 1998. **Type-species**, by original designation: *Hyla truncata* Izecksohn, 1959 – Brazil (Rio de Janeiro)

*Xenohyla eugenioi* Caramaschi, 1998. – Brazil (Bahia).

#### Subfamilia PELODRYADINAE Günther, 1858

*Litoria anthurmalin* McDonald, 1997. – Australia (Queensland).

*Litoria daviesae* Mahony, Knowles, Foster & Donnellan, 2001 – Australia (New South Wales)

*Litoria elkeae* Günther & Richards, 2000. – Indonesia (Irian Jaya)

*Litoria machi* Richards, 2001. – Indonesia (Irian Jaya)

*Litoria wapogaensis* Richards & Iskandar, 2001. – Indonesia (Irian Jaya).

#### Subfamilia PHYLLOMEDUSINAE Günther, 1858

*Phyllomedusa camba* De la Riva, 2000. – Bolivia

*Phyllomedusa oreades* Brandão, 2002. – Brazil (Goiás).

#### Familia LEPTODACTYLIDAE Werner, 1896 (1838)

##### Incertae sedis

† *Estesiella* Baez, 1995 – Bolivia Paleocene **Comment.** Nomen novum pro *Estesus* Baez, 1995 [nec *Estesus* Wallach, 1984].

Subfamilia *BRACHYCEPHALINAE* Gunther, 1858

- Brachycephalus pernix* Pombal, Wistuba & Bornschein, 1998. – Brazil (Paraná)
- Brachycephalus vertebralis* Pombal, 2001. – Brazil (Rio de Janeiro).
- Eleutherodactylus actinolomus* Lynch & Rueda-Almonacid, 1998. – Colombia.
- Eleutherodactylus ammiscola* Campbell & Savage, 2000. – Guatemala
- Eleutherodactylus anemerus* Duellman & Pramuk, 1999. – Peru
- Eleutherodactylus angustumneatus* Lynch, 1998a. – Colombia.
- Eleutherodactylus anthrax* Lynch, 2001b. – Colombia.
- Eleutherodactylus araiodactylus* Duellman & Pramuk, 1999. – Peru.
- Eleutherodactylus ardalonychus* Duellman & Pramuk, 1999. – Peru.
- Eleutherodactylus ashkapara* Kohler, 2000b. – Bolivia.
- Eleutherodactylus atrabracus* Duellman & Pramuk, 1999. – Peru
- Eleutherodactylus avicuporum* Duellman & Pramuk, 1999. – Peru.
- Eleutherodactylus avius* Myers & Donnelly, 1997. – Venezuela.
- Eleutherodactylus baiots* Lynch, 1998a. – Colombia.
- Eleutherodactylus blairhedgesi* Estrada, Diaz & Rodriguez, 1998. – Cuba.
- Eleutherodactylus captonus* Lynch, 1998a. – Colombia.
- Eleutherodactylus catalinae* Campbell & Savage, 2000. – Costa Rica
- Eleutherodactylus cavernibardus* Myers & Donnelly, 1997. – Venezuela
- Eleutherodactylus charadra* Campbell & Savage, 2000. – Guatemala.
- Eleutherodactylus coffeus* McCranie & Köhler, 1999b. – Honduras.
- Eleutherodactylus cuneirostris* Duellman & Pramuk, 1999. – Peru.
- Eleutherodactylus duende* Lynch, 2001a. – Colombia
- Eleutherodactylus dundeei* Heyer & Muñoz, 1999. – Brazil (Mato Grosso).
- Eleutherodactylus epacrus* Lynch & Suarez-Mayorga, 2000. – Colombia.
- Eleutherodactylus exoristus* Duellman & Pramuk, 1999. – Ecuador.
- Eleutherodactylus factious* Lynch & Rueda-Almonacid, 1998a. – Colombia
- Eleutherodactylus fallax* Lynch & Rueda-Almonacid, 1999. – Colombia.
- Eleutherodactylus fetusus* Lynch & Rueda-Almonacid, 1998a. – Colombia
- Eleutherodactylus glamyrus* Estrada & Hedges, 1997c. – Cuba.
- Eleutherodactylus helvolus* Lynch & Rueda-Almonacid, 1998b. – Colombia
- Eleutherodactylus ibischi* Reichle, Lötters & De La Riva, 2001. – Bolivia.
- Eleutherodactylus machus* Campbell & Savage, 2000. – Guatemala
- Eleutherodactylus infraguttatus* Duellman & Pramuk, 1999. – Peru
- Eleutherodactylus jaumei* Estrada & Alonso, 1997. – Cuba.
- Eleutherodactylus kelephus* Lynch, 1998a. – Colombia.
- Eleutherodactylus lemur* Lynch & Rueda-Almonacid, 1998b. – Colombia.
- Eleutherodactylus lloysi* Kohler & Lötters, 1999. – Bolivia.
- Eleutherodactylus melanogaster* Duellman & Pramuk, 1999. – Peru
- Eleutherodactylus memorans* Myers & Donnelly, 1997. – Venezuela
- Eleutherodactylus metabates* Duellman & Pramuk, 1999. – Peru.
- Eleutherodactylus mimonastes* Lynch, 1998b. – Colombia
- Eleutherodactylus muscosus* Duellman & Pramuk, 1999. – Peru.
- Eleutherodactylus myllonmyllon* Savage, 2000. – Guatemala
- Eleutherodactylus nyrops* Lynch, 1998a. – Colombia.
- Eleutherodactylus nephophilus* Duellman & Pramuk, 1999. – Peru
- Eleutherodactylus olanchano* McCranie & Wilson, 1999b. – Honduras
- Eleutherodactylus olivaceus* Kohler, Morales, Lötters, Reichle & Aparicio, 1998. – Bolivia

- Eleutherodactylus operosus* Savage, McCranie & Wilson, 1999. – Honduras.
- Eleutherodactylus optimus* Savage & Myers, 2002. – Colombia.
- Eleutherodactylus paisa* Lynch & Ardila-Robayo, 1999. – Colombia.
- Eleutherodactylus palenque* Campbell & Savage, 2000. – Mexico.
- Eleutherodactylus paranaensis* Langone & Segalla, 1996. – Brazil (Paraná)
- Eleutherodactylus parectatus* Lynch & Rueda-Almonacid, 1998b. – Colombia.
- Eleutherodactylus pataikos* Duellman & Pramuk, 1999. – Peru.
- Eleutherodactylus pechorum* McCranie & Wilson, 1999b. – Honduras.
- Eleutherodactylus pelorus* Campbell & Savage, 2000. – Mexico.
- Eleutherodactylus penelopis* Lynch & Rueda-Almonacid, 1999. – Colombia.
- Eleutherodactylus percnopterus* Duellman & Pramuk, 1999. – Peru.
- Eleutherodactylus phalaris* Lynch, 1998a. – Colombia
- Eleutherodactylus pinguis* Duellman & Pramuk, 1999. – Peru.
- Eleutherodactylus principalis* Estrada & Hedges, 1997a. – Cuba.
- Eleutherodactylus proctus* Lynch, 1998a. – Colombia
- Eleutherodactylus quantus* Lynch, 1998a. – Colombia.
- Eleutherodactylus quidditus* Lynch, 2001b. – Colombia.
- Eleutherodactylus renjiformis* Lynch, 2000. – Colombia.
- Eleutherodactylus rhodosuchus* Duellman & Pramuk, 1999. – Peru.
- Eleutherodactylus rhyacobatrachus* Campbell & Savage, 2000. – Costa Rica.
- Eleutherodactylus riparius* Estrada & Hedges, 1998. – Cuba.
- Eleutherodactylus rivularis* Diaz, Estrada & Hedges, 2001. – Cuba.
- Eleutherodactylus rivulus* Campbell & Savage, 2000. – Guatemala.
- Eleutherodactylus rufioculis* Duellman & Pramuk, 1999. – Peru.
- Eleutherodactylus rupinus* Campbell & Savage, 2000. – Guatemala.
- Eleutherodactylus sabrinus* Campbell & Savage, 2000. – Guatemala
- Eleutherodactylus sambagu* Mendes Castanho & Haddad, 2000. – Brazil (Paraná).
- Eleutherodactylus sanguineus* Lynch, 1998a. – Colombia.
- Eleutherodactylus serendipitus* Duellman & Pramuk, 1999. – Peru.
- Eleutherodactylus simulans* Diaz & Fong, 2001. – Cuba.
- Eleutherodactylus suetus* Lynch & Rueda-Almonacid, 1998b. – Colombia.
- Eleutherodactylus tinker* Lynch, 2001b. – Colombia.
- Eleutherodactylus tomyi* Estrada & Hedges, 1997b. – Cuba.
- Eleutherodactylus torrenticola* Lynch & Rueda-Almonacid, 1998a. – Colombia
- Eleutherodactylus turpinorum* Hardy, 2001. – Trinidad & Tobago.
- Eleutherodactylus viejas* Lynch & Rueda-Almonacid, 1999. – Colombia.
- Eleutherodactylus xenotolum* Lynch, 2001a. – Colombia.
- Eleutherodactylus zophus* Lynch & Ardila-Robayo, 1999. – Colombia.
- Phrynosoma adenopleurum* Aguayo, Rodrigo & Harvey, 2001. – Bolivia.
- Phrynosoma barthlenae* Lehr & Aguilar, 2002. – Peru.
- Phrynosoma carpathi* Lehr, Rodríguez & Córdova, 2002. – Peru.
- Phrynosoma dagmarae* Lehr, Aguilar & Köhler, 2002. – Peru.
- Phrynosoma fallaciosus* Duellman, 2000. – Peru
- Phrynosoma hemorum* Lehr, 2001. – Peru
- Phrynosoma horstpauli* Lehr, Köhler & Ponce, 2000. – Peru
- Phrynosoma tatamasi* Aguayo, Rodrigo & Harvey, 2001. – Bolivia
- Phrynosoma kauneorum* Lehr, Aguilar & Köhler, 2002. – Peru.
- Phrynosoma pinguis* Harvey & Ergueta, 1998. – Bolivia
- Phrynosoma spectabilis* Duellman, 2000. – Peru.
- Phrynosoma thompsoni* Duellman, 2000. – Peru

*Phyllonastes carrascotola* De la Riva & Köhler, 1998. – Bolivia.

*Phyllonastes ritarasquinae* Köhler, 2000a. – Bolivia.

*Ptylophryne hermogenesi* Giaretta & Sawaya, 1998. – Brazil (São Paulo).

#### Subfamilia CERATOPHRYNINAE Tschudi, 1838

† *Ceratophrys ameghinorum* Fernicola, 2001. – Argentina. Neogene.

#### Subfamilia CYCLOPAMPHINAE Bonaparte, 1850

*Parateimatobius cardosoi* Pombal & Haddad, 1999. – Brazil (São Paulo).

*Parateimatobius mantiqueira* Pombal & Haddad, 1999. – Brazil (São Paulo).

***Rupirana*** Heyer, 1999. **Type-species**, by original designation: *Rupirana cardosoi* Heyer, 1999 Brazil (Bahia).

*Rupirana cardosoi* Heyer, 1999. – Brazil (Bahia).

#### Subfamilia HYLODINAE Gunther, 1858

*Hylodes amnicola* Pombal, Feio & Haddad, 2002. – Brazil (Minas Gerais).

*Hylodes dactylocinus* Pavan, Narvaes & Rodrigues, 2001. – Brazil (São Paulo).

*Hylodes uai* Nascimento, Pombal & Haddad, 2001. – Brazil (Minas Gerais)

*Megaelosia boticariana* Giaretta & Aguiar, 1998. – Brazil (São Paulo).

#### Subfamilia LEPTODACTYLINAE Werner, 1896 (1838)

*Adenomera araucaria* Kwet, 2003. – Brazil (Rio Grande do Sul).

*Physalaemus maximus* Feio, Pombal & Caramaschi, 1999. – Brazil (Minas Gerais).

*Pseudopaludicola mirandae* Mercadal de Barrio & Barrio, 1994. – Argentina.

*Pseudopaludicola riopiedadensis* Mercadal de Barrio & Barrio, 1994. – Brazil (São Paulo).

#### Subfamilia ODONTOPHRYNINAE Lynch, 1969

*Odontophrymus cordobae* Martino & Sinsch, 2002. – Argentina

*Proceratophrys brauni* Kwet & Faivovich, 2001. – Brazil (Rio Grande do Sul).

*Proceratophrys concavtympanum* Giaretta, Bernarde & Kokubum, 2000 – Brazil (Rondônia)

*Proceratophrys cururu* Eterovick & Szalma, 1998. – Brazil (Minas Gerais).

#### Subfamilia TELMATOBIIINAE Fitzinger, 1843

*Alsodes australis* Formas, Úbeda, Cuevas & Nuñez, 1998. – Chile.

*Alsodes hugoi* Cuevas & Formas, 2001. – Chile.

*Alsodes kaweshkari* Formas, Cuevas & Nuñez, 1998. – Chile.

*Alsodes valdiviensis* Formas, Cuevas & Brieva, 2002. – Chile.



*Atelognathus* *ceri* Basso, 1998. – Chile.

*Telmatobius dankoi* Formas, Northland, Capetillo, Nuñez, Cuevas & Brieva, 1999. Chile.

*Telmatobius frontieriensis* Benavides, Ortiz & Formas, 2002. – Chile.

*Telmatobius huayra* Lavilla & Ergueta, 1995. – Bolivia.

*Telmatobius tformoi* Lavilla & Ergueta Sandoval, 1999. – Bolivia.

*Telmatobius philippu* Cuevas, 2002. – Chile.

#### Familia MYOBATRACHIDAE Schlegel, 1850

##### Subfamilia LIMNODYNASTINAE Lynch, 1969

*Neobatrachus albipes* Roberts, Mahony, Kendrick & Majors, 1991. Australia (Western Australia).

#### Superfamilia RANOIDEA Rafinesque-Schmaltz, 1814

##### Familia BREVICIPITIDAE Bonaparte, 1850

##### Subfamilia ASTYLOSTERNINAE Noble, 1927

*Leptodactylodon blanchi* Ohler, 1999. Gabon.

*Leptodactylodon waldi* Amiet & Dowsett-Lemaire, 2000. – Cameroon.

##### Subfamilia HEMISOTINAE Cope, 1867

*Hemusus barotseensis* Channing & Broadley, 2002. Zambia.

##### Subfamilia HYPEROLIINAE Laurent, 1943

##### Tribus HYPEROLINI Laurent, 1943

*Alexeteron hysiphonus* Amiet, 2000 – Cameroon

*Alexeteron jynx* Amiet, 2000. – Cameroon.

*Heterixalus carbonei* Vences, Glaw, Jesu & Schimmenti, 2000. – Madagascar

*Hyperolius kihangensis* Schiøtz & Westergaard in SCHIÖTZ, 1999 Tanzania **Comment:** Species  
redescribed in detail by SCHIÖTZ & WESTERGAARD (2000).

*Hyperolius menokouensis* Rödel, 1999. – Ivory Coast.

*Hyperolius pseudargus* Schiøtz & Westergaard in SCHIÖTZ, 1999 Tanzania **Comment:** Species  
redescribed in detail by SCHIÖTZ & WESTERGAARD (2000)

##### Tribus KASSININI Laurent, 1972

*Kassina schiøtzi* Rödel, Grafe, Rudolf & Ernst, 2002. – Ivory Coast

##### Subfamilia LEPTOPELINAE Laurent, 1972

*Leptopelis zebra* Amiet, 2001. Cameroon

## Familia MICROHYLIDAE Günther, 1858 (1843)

## Subfamilia ASTEROPHYRYINAE Günther, 1858

## Tribus ASTEROPHYRYINI Günther, 1858

- Hylophorbus nigrinus* Günther, 2001. – Indonesia (Irian Jaya).  
*Hylophorbus picoides* Günther, 2001. – Indonesia (Irian Jaya).  
*Hylophorbus richardsi* Günther, 2001. – Papua New Guinea.  
*Hylophorbus sextus* Günther, 2001. – Indonesia (Irian Jaya).  
*Hylophorbus tetraphonus* Günther, 2001. – Indonesia (Irian Jaya).  
*Hylophorbus wondrwoi* Günther, 2001. – Indonesia (Irian Jaya).

## Tribus XENORHINI Mivart, 1869

- Xenobatrachus zweifeli* Kraus & Allison, 2002. – Papua New Guinea.  
*Xenorhina arborecola* Allison & Kraus, 2000. Papua New Guinea.

## Subfamilia COPHYLINAE Cope, 1889

- Stumpffia helenae* Vallan, 2000. – Madagascar

## Subfamilia GENYOPHYRYINAE Boulenger, 1890

- Albericus brunhildae* Menzies, 1999. – Papua New Guinea.  
*Albericus fajumi* Menzies, 1999. – Papua New Guinea.  
*Albericus gudrunae* Menzies, 1999. – Papua New Guinea.  
*Albericus gunnari* Menzies, 1999. – Papua New Guinea.  
*Albericus laurim* Günther, 2000. – Indonesia (Irian Jaya).  
*Albericus rhenaureum* Menzies, 1999. – Papua New Guinea.  
*Albericus siegfriedi* Menzies, 1999. – Papua New Guinea.  
*Albericus swanhildae* Menzies, 1999. – Papua New Guinea.  
*Albericus vaikuniarum* Menzies, 1999. – Papua New Guinea.  
*Austrochaperina adamantina* Zweifel, 2000. – Papua New Guinea.  
*Austrochaperina aquiloma* Zweifel, 2000. – Papua New Guinea.  
*Austrochaperina archboldi* Zweifel, 2000. – Papua New Guinea.  
*Austrochaperina blumi* Zweifel, 2000. – Indonesia (Irian Jaya).  
*Austrochaperina derongo* Zweifel, 2000. – Papua New Guinea.  
*Austrochaperina guttata* Zweifel, 2000. – Papua New Guinea.  
*Austrochaperina kosarek* Zweifel, 2000. – Indonesia (Irian Jaya).  
*Austrochaperina novaebritanniae* Zweifel, 2000. – Papua New Guinea.  
*Austrochaperina parkeri* Zweifel, 2000. – Papua New Guinea.  
*Austrochaperina rivularis*, Zweifel, 2000. – Papua New Guinea.  
*Austrochaperina yelaensis* Zweifel, 2000. – Papua New Guinea.  
*Choerophryne longirostris* Kraus & Allison, 2001. Papua New Guinea.  
*Cophixalus bewaniensis* Kraus & Allison, 2000. – Papua New Guinea.

- Cophixalus pulchellus* Kraus & Allison, 2000. – Papua New Guinea.  
*Cophixalus variegatus* Richards, Johnston & Burton, 1992. Papua New Guinea.  
*Cophixalus zwoelferi* Davies & McDonald, 1998. – Australia (Queensland).  
*Copula expectata* Günther, 2002b. – Indonesia (Irian Jaya).  
*Copula major* Günther, 2002a. – Indonesia (Irian Jaya).  
*Copula obsti* Günther, 2002a. – Indonesia (Irian Jaya).  
*Liophryne allisoni* Zweifel, 2000. – Papua New Guinea.  
*Liophryne rubra* Zweifel, 2000. Papua New Guinea  
*Liophryne similis* Zweifel, 2000. – Papua New Guinea  
*Oreophryne atrigularis* Günther, Richards & Iskandar, 2001. – Indonesia (Irian Jaya).  
*Oreophryne minuta* Richards & Iskandar, 2000. – Indonesia (Irian Jaya).  
*Oreophryne wapoga* Günther, Richards & Iskandar, 2001. Indonesia (Irian Jaya)  
*Oxydactyla alpestris* Zweifel, 2000. – Papua New Guinea.  
*Oxydactyla coggeri* Zweifel, 2000. – Papua New Guinea  
*Oxydactyla stenodactyla* Zweifel, 2000. – Papua New Guinea.

Subfamilia *MICROHYLINE* Günther, 1858 (1843)

Tribus *GASTROPHRYNINI* Fitzinger, 1843

- Chiasmocleus alagoanus* Cruz, Caramaschi & Freire, 1999. – Brazil (Alagoas).  
*Chiasmocleus jumi* Caramaschi & Cruz, 2001. – Brazil (Amazonas).  
*Elachistocleus erythrogaster* Kwet & Di-Bernardo, 1998. Brazil (Rio Grande do Sul)  
*Otophryne pyburni* Campbell & Clarke, 1998. Colombia.

Tribus *MICROHYLINI* Günther, 1858 (1843)

- Kalophrynus orangensis* Dutta, Ahmed & Das, 2000. – India (Assam).  
*Kaloula walteri* Diesmos, Brown & Alcalá, 2002. – Philippines (Luzon).  
*Microhyla sholigari* Dutta & Ray, 2000. – India (Karnataka).  
*Ramanella nagaoi* Manamendra-Arachchi & Pethiyagoda, 2001a. Sri Lanka.

Familia *RANIDAE* Rafinesque-Schmaltz, 1814

Subfamilia *CERATOBATRACHINAE* Boulenger, 1884

- Platymantis banahao* Brown, Alcalá, Diesmos & Alcalá, 1997 - Philippines (Luzon)  
*Platymantis bimaculata* Günther, 1999. – Indonesia (Irian Jaya)  
*Platymantis brotoni* Allison & Kraus, 2001 – Papua New Guinea.  
*Platymantis cagayanensis* Brown, Alcalá & Diesmos, 1999. - Philippines (Luzon)  
*Platymantis cryptotis* Günther, 1999. - Indonesia (Irian Jaya).  
*Platymantis indeprensus* Brown, Alcalá & Diesmos, 1999. – Philippines (Luzon).  
*Platymantis usarog* Brown, Brown, Alcalá & Frost, 1997. Philippines (Luzon). **Comment** Nomen novum pro *Platymantis reticulatus* Brown, Brown & Alcalá, 1997 [nec *Platymantis reticulatus* Zhao & Li, 1984].  
*Platymantis luzonensis* Brown, Alcalá, Diesmos & Alcalá, 1997 Philippines (Luzon)  
† *Platymantis megabatonviti* Worthy, 2001. – Fiji. Quaternary.

*Platymantis naomii* Alcalá, Brown & Diesmos, 1998. Philippines (Luzon). **Comment:** Although this species was dedicated to a woman (Naomi Alcalá), according to Art 31.1.1 of the Code its nomen does not have to be emended for reasons explained by CROCHET & DUBOIS (2004: 496).

*Platymantis negrosensis* Brown, Alcalá, Diesmos & Alcalá, 1997. Philippines (Negros).

*Platymantis pseudodorsalis* Brown, Alcalá & Diesmos, 1999. – Philippines (Luzon).

*Platymantis pygmaeus* Alcalá, Brown & Diesmos, 1998. – Philippines (Luzon).

*Platymantis rabori* Brown, Alcalá, Diesmos & Alcalá, 1997. Philippines (Bohol).

*Platymantis sierramadrensis* Brown, Alcalá, Ong & Diesmos, 1999. Philippines (Luzon).

*Platymantis taylora* Brown, Alcalá & Diesmos, 1999. – Philippines (Luzon).

#### Subfamilia DICROGLOSSINAE Anderson, 1871

##### Tribus DICROGLOSSINI Anderson, 1871

*Feyervarya iskandari* Veith, Kosuch, Ohler & Dubois, 2001. – Indonesia (Java)

**Minervarya** Dubois, Ohler & Biju, 2001. **Type-species**, by original designation. *Minervarya sahyadris* Dubois, Ohler & Biju, 2001. – India (Karnataka).

*Minervarya sahyadris* Dubois, Ohler & Biju, 2001. – India (Karnataka).

**Tigrina** Fei, Ye & Huang, 1991 [nec *Tigrina* Greve, 1894]. **Type-species**, by original designation: *Rana tigrina* Daudin, 1802. – India (West Bengal).

*Tomopterna maskeyi* Schleich & Anders, 1998. – Nepal. – **Comment:** The nomen *Tomopterna* is now applied only to an African genus referred to the *Pyxicephalinae* (DUBOIS, 2003, 2005a); the Asian species formerly placed in this genus are now referred to the genus *Sphaerotherisma*, which is related with *Feyervarya* (VENCES et al., 2000) and therefore considered a member of the DICROGLOSSINI (DUBOIS, 2003).

##### Tribus LIMNONECTINI Dubois, 1992

*Limnonectes Fujianensis* Ye & Fei in Ye, Fei & Hu, 1993. – China (Fujian). **Comment:** Species redescribed as new by YE & FEI (1994b), with the same nomen and authors (see YE, FEI & HU, 1993: 370), but nomen is available as from YE, FEI & HU (1993: 113). Not being mentioned in the original publication of the nomen, the “holotype” designated by YE & FEI (1994b: 494, 499) is in fact the lectotype of this nominal species.

*Lurana alpinus* Huang & Ye, 1997. – China (Xizang).

*Lurana medogensis* Fei, Ye & Huang, 1997. – China (Xizang).

*Rana charlesdarwini* Das, 1998a. – India (Andamans & Nicobars). **Comment:** This species with forked omosternum is clearly not a member of the genus *Rana*, let alone of the *Raninae*, pending examination of specimens, it is here referred to the *LIMNONECTINI*, without generic allocation. [Alain DUBOIS].

##### Tribus PARI Dubois, 1992

*Paa* (*Ferrana*) *taihangensis* Chen & Jiang, 2002. – China (Henan). **Comment:** The original spelling of the epithet of this new species is incorrect and should be emended into *taihangensis* according to Art 31.2 of the Code, a justified emendation which was first used by JIANG et al. (2005).

*Paa* (*Ferrana*) *yet* Chen, Qu & Jiang, 2002. – China (Henan). **Comments** (1) Species redescribed as new, with the same nomen, authors and holotype, in CHEN, JIANG & QU (2004), but nomen is

available as from CHEN, QU & JIANG (2002). (2) Although this species was dedicated to a woman (Ye Changyuan), according to Art. 31.1.1 of the *Code* its nomen does not have to be emended for reasons explained by CROCHET & DUBOIS (2004: 496)

*Paa* (*Paa*) *medogensis* Fei & Ye, 2001b. – China (Xizang).

*Paa* (*Paa*) *rara* Dubois, Matsui & Ohler, 2001. Nepal. **Comment:** Nomen novum pro *Rana* (*Paa*) *rara* Dubois & Matsui, 1983 [nec *Rana damibina* var. *rara* Fraas, 1903].

*Rana robertingeri* Wu & Zhao, 1995. China (Sichuan). **Comment:** Referred to the genus *Paa* by JIANG & ZHOU (2005) and to the genus *Quasipaa* by JIANG et al. (2005).

*Scutiger mokokchungensis* Das & Chanda, 2000 – India (Nagaland). **Comment:** Referred to the genus *Paa* by DUBOIS (2002).

*Unculuana* Fei, Ye & Huang, 1991. **Type-species**, by original designation: *Rana unculuana* Liu, Hu & Yang, 1960. – China (Yunnan) **Comment:** Created as a subgenus of *Paa* Dubois, 1975.

#### Subfamilia LANKANECTINAE Dubois & Ohler, 2001

*Lankanectes* Dubois & Ohler, 2001. **Type-species**, by original designation: *Rana corrugata* Peters, 1863. – Sri Lanka.

#### Subfamilia MANTELLINAE Laurent, 1946

##### Tribus BOOPHINI Vences & Glaw, 2001

*Boophis bottae* Vences & Glaw, 2002. – Madagascar.

*Boophis jeannevala* Glaw, Vences, Andreone & Vallan, 2001. – Madagascar.

*Boophis haematopus* Glaw, Vences, Andreone & Vallan, 2001. – Madagascar.

*Boophis lichenoides* Vallan, Glaw, Andreone & Cadle 1998. – Madagascar.

*Boophis picturatus* Glaw, Vences, Andreone & Vallan, 2001. – Madagascar.

*Boophis pyrrhus* Glaw, Vences, Andreone & Vallan, 2001. – Madagascar.

*Boophis schuboeae* Glaw & Vences, 2002b. – Madagascar.

*Boophis tasymena* Vences & Glaw, 2002. – Madagascar.

*Boophis vittatus* Glaw, Vences, Andreone & Vallan, 2001. – Madagascar.

##### Tribus LALIOSTOMINI Vences & Glaw, 2001

*Aglyptodactylus lanceps* Glaw, Vences & Böhme, 1998. – Madagascar

*Aglyptodactylus securifer* Glaw, Vences & Böhme, 1998. – Madagascar

*Laliostoma* Glaw, Vences & Böhme, 1998. **Type-species**, by original designation: *Tomopterna labrosa* Cope, 1868. Madagascar **Comment:** Created as a subgenus of *Tomopterna* Duméril & Bibron, 1841

##### Tribus MANTELLINI Laurent, 1946

*Chonomanthis* Glaw & Vences, 1994. **Type-species**, by original designation: *Rana albofrenata* Müller, 1892. Madagascar **Comment:** Created as a subgenus of *Mantidactylus* Boulenger, 1895

*Mantella aurantiaca milotympanum* Stanislawski, 1996. Madagascar

- Mantella aurantiaca rubra* Staniszewski, 1996. – Madagascar.  
*Mantella manery* Vences, Glaw & Böhme, 1999. – Madagascar.  
*Manindactylus ambohitra* Vences & Glaw, 2001b. – Madagascar.  
*Manindactylus brunae* Andreone, Glaw, Vences & Vallan, 1998. – Madagascar.  
*Manindactylus enki* Glaw & Vences, 2002c. – Madagascar.  
*Manindactylus kathrinae* Glaw, Vences & Gossmann, 2000. – Madagascar.  
*Manindactylus madinka* Vences, Andreone, Glaw & Mattioli, 2002. – Madagascar.  
*Manindactylus moseri* Glaw & Vences, 2002d. – Madagascar.  
*Manindactylus sarotra* Glaw & Vences, 2002a. – Madagascar.  
*Manindactylus schilfi* Glaw & Vences, 2000. – Madagascar.  
*Manindactylus striatus* Vences, Glaw, Andreone, Jesu & Schimment, 2002. – Madagascar.  
*Manindactylus tandroka* Glaw & Vences, 2001. – Madagascar.  
*Manindactylus tschenki* Glaw & Vences, 2001. – Madagascar.  
***Ochthomantis*** Glaw & Vences, 1994 – **Type-species**, by original designation: *Rana femoralis* Boulenger, 1882. – Madagascar. **Comment:** Created as a subgenus of *Manindactylus* Boulenger, 1895.  
***Pandonusicola*** Glaw & Vences, 1994 **Type-species**, by original designation: *Rhacophorus bicalcaratus* Boettger, 1913. Madagascar. **Comment:** Created as a subgenus of *Mantidactylus* Boulenger, 1895.  
***Phylacomantis*** Glaw & Vences, 1994 – **Type-species**, by original designation: *Mantidactylus corvus* Glaw & Vences, 1994. Madagascar. **Comment:** Created as a subgenus of *Mantidactylus* Boulenger, 1895.

Subfamily *MICRIXALINAE* Dubois, Ohler & Biju, 2001

- Micrixalus gadgili* Pillai & Pattabiraman, 1990. – India (Kerala).

Subfamily *NYCTIBATRACHINAE* Blommers-Schlösser, 1993

- Nyctibatrachus hussaini* Krishnamurthy, Reddy & Gururaja, 2001. India (Karnataka).

Subfamily *PETROPEDETINAE* Noble, 1931

- Arthrolepides yakusini* Channing, Moyer & Howell, 2002. – Tanzania.

Subfamily *PHRYNOBATRACHINAE* Laurent, 1941

- Phrynobatrachus inexpectatus* Largen, 2001. – Ethiopia.  
*Phrynobatrachus trangi* Drewes & Perret, 2000. – Kenya.  
*Phrynobatrachus phyllophilus* Rödel & Ernst, 2002. – Ivory Coast.

Subfamily *PTYCHADENINAE* Dubois, 1987

- Ptychadena fitwaha* Largen, 1997. – Ethiopia.  
*Ptychadena harenna* Largen, 1997. – Ethiopia.  
*Ptychadena wadesi* Largen, 2000. – Ethiopia.

Subfamilia *Pyxicephalinae* Bonaparte, 1850

- Arthroleptella drewesi* Channing, Hendricks & Dawood, 1994. – South Africa.  
*Arthroleptella landrosia* Dawood & Channing, 2000. – South Africa  
*Cacosternum karoocum* Boycott, de Villiers & Scott, 2002. – South Africa  
*Strongylopus kutumbe* Channing & Davenport, 2002. – Tanzania.  
*Tomopterna damarensis* Dawood & Channing, 2002. – Namibia.

Subfamilia *Raninae* Rafinesque-Schmaltz, 1814Tribus *Ranini* Rafinesque-Schmaltz, 1814

- Amolops bellulus* Liu, Yang, Ferraris & Matsui, 2000. – China (Yunnan).  
*Amolops chakrataensis* Ray, 1999. India (Uttar Pradesh).  
*Amolops crennobatus* Inger & Kottelat, 1998. – Laos.  
*Amolops jaunsari* Ray, 1999. – India (Uttar Pradesh).  
*Amolops mengyangensis* Wu & Tian, 1995. – China (Yunnan).  
*Amolops spinapectoralis* Inger, Orlov & Darevsky, 1999. – Vietnam.  
*Amolops tuberodepressus* Liu & Yang, 2000. – China (Yunnan).  
*Amolops (Huia) modighanii* Doria, Salvidio & Tavano, 2001. – Indonesia (Sumatra)  
*Odorrana exilisversabilis* Fei, Ye & Li, 2001b. China (Fujian).  
*Odorrana hainanensis* Fei, Ye & Li, 2001a. China (Hainan).  
*Odorrana jingdongensis* Fei, Ye & Li, 2001a. – China (Yunnan).  
*Odorrana junshanensis* Huang, Fei & Ye in Fei & Ye, 2001a. – China (Sichuan).  
*Odorrana nasuta* Fei, Ye & Li, 2001b. China (Hainan).  
**"Pseudoamolops"** Jiang, Fei, Ye, Zeng, Zhen, Xie & Chen, 1997. – Taiwan. - **Comments** (1)  
 Created as a subgenus of *Amolops* Cope, 1865 (2) Nomenclaturally unavailable genus-series  
 nomen, as published without designation of a type-species.  
***Pseudoamolops*** Fei, Ye & Jiang, 2000 **Type-species**, by original designation: *Rana sauteri* Boulenger, 1909. – Taiwan.  
*Rana atigua* Inger, Orlov & Darevsky, 1999 – Vietnam.  
*Rana balcanica* Schneider & Sinsch, 1992 [nec *Rana balcanica* Schneider, Sinsch & Sofianidou, 1993]  
 Greece. **Comment:** See DUBOIS & ÖHLER (1995).  
*Rana bannanica* Rao & Yang, 1997c. – China (Yunnan).  
*Rana chitwanensis* Das, 1998b. – Nepal.  
*Rana dhakuriensis* Ray, 1997. India (Uttar Pradesh)  
*Rana eperotica* Schneider, Sofianidou & Kyriakopoulou-Sklavounou, 1984. Greece  
*Rana huanrenensis* Liu, Zhang & Liu, 1993 China (Liaoning). **Comment** As noted by DUELLMAN  
 (1991: 262), the nomen of this species was made available by its publication in a key in FEI, YE &  
 HUANG (1991: 131) The nomen *Rana huanrenensis* introduced by LIU, ZHANG & LIU (1993) in their  
 formal description of the species can be regarded either as a brand new nomen or as an unjustified  
 emendation of *Rana huanrenensis* Fei, Ye & Huang, 1991 (see below) In both cases it is a distinct  
 available nomen and an invalid junior synonym of the latter nomen  
*Rana huanrenensis* Fei, Ye & Huang, 1991 China (Liaoning) **Comment** The original spelling  
*huanrenensis* appears three times in the original publication (FEI, YE & HUANG, 1991: 131, 298, 347),  
 so it cannot be considered an "inadvertent error", and it does not have to be corrected because of  
 so-called "incorrect latinization" as the latter is not a case of "incorrect original spelling"  
 according to the Code (ANONYMOUS, 1999, Art. 32.5).

*Rana kunyuenensis* Lu & Li, 2002. – China (Shandong).

*Rana lessonae bergeri* Günther, 1985. – Italy.

*Rana lini* Chou, 1999. – China (Yunnan).

*Rana mangyanum* Brown & Guttman, 2002. – Philippines (Mindoro).

*Rana multidenticulata* Chou & Lin, 1997. Taiwan **Comments:** (1) Nomen misspelled *Rana multidentata* in GLAW et al (1998 xxii) (2) Species referred to the genus *Pseudomolops* by FEI, YE & JIANG (2000).

*Rana omemomus* Ye & Fei in Ye, Fei & Hu, 1993. – China (Sichuan)

*Rana osca* Paolucci, Fuhn & Bruno, 1993. – Italy.

*Rana ridibunda caraltana* Arkan, 1988. – Turkey.

*Rana npanan* Brown, McGuire & Diesmos, 2000. – Philippines (Luzon).

*Rana zhengi* Zhao, 1999. – China (Sichuan).

*Rana zhenhaiensis* Ye, Fei & Matsui, 1995. – China (Zhejiang).

*Rana (Sylvirana) faber* Ohler, Swan & Daltry, 2002. – Cambodia

*Tenuirana* Fei, Ye & Huang, 1991. **Type-species**, by original designation: *Rana taiopehensis* Van Denburgh, 1909. – Taiwan – **Comment:** Created as a subgenus of *Hylarana* Tschudi, 1838

#### Subfamilia RHACOPHORINAE Hoffman, 1932 (1858)

##### Tribus PHILAUTINI Dubois, 1981

***Kurixalus*** Fe., Ye & Dubois in Fei, 1999. **Type-species**, by original designation: *Rana effingeri* Boettger, 1895. – Japan

*Philautus abditus* Inger, Orlov & Darevsky, 1999. Vietnam.

*Philautus cardamonis* Ohler, Swan & Daltry, 2002. – Cambodia.

*Philautus erythrophthalmus* Stuebing & Wong, 2000. – Malaysia (Sabah).

*Philautus griet* Bossuyt, 2002. – India (Kerala).

*Philautus odontotarsus* Ye & Fei in Ye, Fei & Hu, 1993. – China (Yunnan)

*Philautus terebrans* Das & Chanda, 1998. – India (Andhra Pradesh).

##### Tribus RHACOPHORINI Hoffman, 1932 (1858)

*Chirixalus dudhwaensis* Ray, 1999. – India (Uttar Pradesh).

*Polypedates fastigo* Manamendra-Arachchi & Pethiyagoda, 2001b. – Sri Lanka.

*Polypedates pingbianensis* Kou, Hu & Gao, 2001. – China (Yunnan).

*Polypedates pseudocruciger* Das & Ravichandran, 1998. – India (Tamil Nadu).

*Polypedates puerensis* He, 1999. – China (Yunnan).

*Rhacophorus achantharrhena* Harvey, Pemberton & Smith, 2002. Indonesia (Sumatra).

*Rhacophorus bahogaster* Inger, Orlov & Darevsky, 1999. – Vietnam.

*Rhacophorus barisan* Harvey, Pemberton & Smith, 2002. – Indonesia (Sumatra).

*Rhacophorus catamitus* Harvey, Pemberton & Smith, 2002. – Indonesia (Sumatra).

*Rhacophorus cyanopunctatus* Manthey & Steiof, 1998. – Thailand.

*Rhacophorus dubois* Ohler, Marquis, Swan & Grosjean, 2000. – Vietnam

*Rhacophorus exochopygus* Inger, Orlov & Darevsky, 1999. Vietnam.

*Rhacophorus hoanghenensis* Orlov, Lathrop, Murphy & Cuc, 2001. – Vietnam

*Rhacophorus orlovi* Ziegler & Kohler, 2001. – Vietnam.

*Rhacophorus pseudomalabaricus* Vasudevan & Dutta, 2000. – India (Tamil Nadu)



## Superfamiliha SOOGLOSSOIDEA Noble, 1931

## Familiha SOOGLOSSIDAE Noble, 1931

*Sooglossus pipilodryas* Gerlach & Willi, 2002. – Seychelles.

## Ordo URODELA Duméril, 1806

## Incertae sedis

- † *Apricosiren* Evans & McGowan, 2002. **Type-species**, by original designation: † *Apricosiren ensomii* Evans & McGowan, 2002. – England. Cretaceous.
- † *Apricosiren ensomii* Evans & McGowan, 2002. – England. Cretaceous.
- † *Bishara* Nessov, 1997. – **Type-species**, by original designation. *Bishara backa* Nessov, 1997. Kazakhstan. Cretaceous.
- † *Bishara backa* Nessov, 1997. – Kazakhstan. Cretaceous.
- † *Galverpeton* Estes & Sanchiz, 1982. – **Type-species**, by original designation. † *Galverpeton ibericum* Estes & Sanchiz, 1982. – Spain. Cretaceous.
- † *Galverpeton ibericum* Estes & Sanchiz, 1982. – Spain. Cretaceous.
- † *Jeholotriton* Wang, 2000. **Type-species**, by original designation † *Jeholotriton paradoxus* Wang, 2000. – China (Nei Mongol). Cretaceous.
- † *Jeholotriton paradoxus* Wang, 2000. – China (Nei Mongol). Cretaceous.
- † *Kiyatriton* Averianov & Voronkevich, 2002. **Type-species**, by original designation † *Kiyatriton leshchinskii* Averianov & Voronkevich, 2002. – Russia. Cretaceous.
- † *Kiyatriton leshchinskii* Averianov & Voronkevich, 2002. – Russia. Cretaceous.
- † *Laccotriton* Gao, Cheng & Xu, 1998. **Type-species**, by original designation † *Laccotriton subsolanus* Gao et al., 1998. – China (Hebei). Mesozoic.
- † *Laccotriton subsolanus* Gao, Cheng & Xu, 1998. – China (Hebei). Mesozoic.
- † *Sinerpeton* Gao & Shubin, 2001. **Type-species**, by original designation † *Sinerpeton fengshanensis* Gao & Shubin, 2001. – China (Hebei). Jurassic.
- † *Sinerpeton fengshanensis* Gao & Shubin, 2001. – China (Hebei). Jurassic.

## Familiha † BATRACHOSAURONIDAE Auffenberg, 1958

- † *Mynbulakia* Nessov, 1981. **Type-species**, by original designation † *Mynbulakia surgayi* Nessov, 1981. Uzbekistan. Cretaceous.
- † *Mynbulakia nongratis* Nessov, 1981. – Uzbekistan. Cretaceous.
- † *Mynbulakia surgayi* Nessov, 1981. – Uzbekistan. Cretaceous.
- † *Parrisia* Denton & O'Neill, 1998. **Type-species**, by original designation: † *Parrisia neocesariensis* Denton & O'Neill, 1998. – USA (New Jersey). Cretaceous.
- † *Parrisia neocesariensis* Denton & O'Neill, 1998. – USA (New Jersey). Cretaceous.
- † *Peratosauroides* Naylor, 1983. **Type-species**, by original designation † *Peratosauroides problematica* Naylor, 1983. – USA (California). Miocene.
- † *Peratosauroides problematica* Naylor, 1983. – USA (California). Miocene.

## Familiha † SCAPHERPONTIDAE Auffenberg &amp; Gorn, 1959

- † *Eoscapherpeton* Nessov, 1981. **Type-species**, by original designation † *Eoscapherpeton asiaticum* Nessov, 1981. – Uzbekistan. Cretaceous.

† *Eoscapherpeton asiaticum* Nessov, 1981. – Uzbekistan. Cretaceous.

† *Eoscapherpeton superum* Nessov, 1997. – Tajikistan. Cretaceous.

† *Horezmia* Nessov, 1981. **Type-species**, by original designation: † *Horezmia gracile* Nessov, 1981 – Uzbekistan. Cretaceous.

† *Horezmia gracile* Nessov, 1981. – Uzbekistan. Cretaceous

#### Epifamilia CRYPTOBRANCHOIDIA Fitzinger, 1826

#### Superfamilia CRYPTOBRANCHOIDEA Fitzinger, 1826

#### Familia CRYPTOBRANCHIDAE Fitzinger, 1826

† *Andrias karelicapeki* Ckhikvadze, 1982 – Kazakhstan. Miocene

† *Aviturus* Gubin, 1991. **Type-species**, by original designation: † *Aviturus exsecratus* Gubin, 1991. – Mongolia. Paleocene.

† *Aviturus exsecratus* Gubin, 1991. – Mongolia. Paleocene.

† *Ulanurus* Gubin, 1991. **Type-species**, by original designation: † *Ulanurus fractus* Gubin, 1991. – Mongolia. Paleocene.

† *Ulanurus fractus* Gubin, 1991. – Mongolia. Paleocene.

#### Familia HYNOBIDAE Cope, 1859 (1856)

#### Subfamilia HYNOBINAE Cope, 1859 (1856)

*Batrachuperus taibaiensis* Song, Zeng, Wu, Liu & Fu, 2001. – China (Shaanxi).

*Hynobius ampensis* Gu, 1992. – China (Zhejiang).

*Hynobius yunnanicus* Chen, Qu & Niu, 2001. – China (Henan).

† *Liaoxitriton* Dong & Wang, 1998. **Type-species**, by original designation: † *Liaoxitriton zhongnani* Dong & Wang, 1998 – China (Liaoning). Cretaceous

† *Liaoxitriton zhongnani* Dong & Wang, 1998. – China (Liaoning). Cretaceous.

† *Parahynobius* Venczel, 1999. **Type-species**, by original designation: † *Parahynobius betfianus* Venczel, 1999 – Romania. Pleistocene

† *Parahynobius betfianus* Venczel, 1999. Romania. Pleistocene.

† *Parahynobius kordon* Venczel, 1999 – Hungary. Miocene.

*Pseudohynobius shuichengensis* Tian, Gu, Sun & Li, 1998 China (Guizhou). **Comment** This new nomen appears under three different spellings in the original publication: *shuichengensis* (twice in p. 7, twice in p. 12, once in p. 13), *xiuchengensis* (once in p. 11) and *suchenensis* (once in p. 12). These spellings are “multiple original spellings” according to the Code. Acting as first revisers, we hereby choose the spelling *shuichengensis* as “correct original spelling” of this nomen.

#### Subfamilia PROTOHYNOBINAE Fei & Ye, 2000

*Protohynobius* Fei & Ye, 2000a **Type-species**, by original designation. *Protohynobius puxiongensis* Fei & Ye, 2000. – China (Sichuan).

*Protohynobius puxiongensis* Fei & Ye, 2000a. China (Sichuan).

Epifamilia † *KARAUROIDIA* Ivachnenko, 1978

Superfamilia † *KARAUROIDEA* Ivachnenko, 1978

Familia † *KARAURIDAE* Ivachnenko, 1978

† *Kokartus* Nesselov, 1988. **Type-species**, by original designation † *Kokartus honorarius* Nesselov, 1988. – Kirgizstan. Jurassic.

† *Kokartus honorarius* Nesselov, 1988. – Kirgizstan. Jurassic.

Epifamilia *SALAMANDROIDIA* Goldfuss, 1820

Incertae sedis

† *Valdotriton* Evans & Milner, 1996. **Type-species**, by original designation. † *Valdotriton gracilis* Evans & Milner, 1996. Spain. Cretaceous.

† *Valdotriton gracilis* Evans & Milner, 1996 – Spain. Cretaceous

Superfamilia *AMBYSTOMATOIDEA* Gray, 1850

Familia *AMBYSTOMATIDAE* Gray, 1850

Familia *DICAMPTODONTIDAE* Tihen, 1958

† *Dicamptodon antiquus* Naylor & Fox, 1993. – Canada (Alberta). Paleocene.

Superfamilia *AMPHIUMOIDEA* Gray, 1825

Familia *AMPHIUMIDAE* Gray, 1825

† *Paleoamphiuma* Rieppel & Grande, 1998 **Type-species**, by original designation: † *Paleoamphiuma tetradactylum* Rieppel & Grande, 1998. USA (Wyoming). Eocene

† *Paleoamphiuma tetradactylum* Rieppel & Grande, 1998 USA (Wyoming) Eocene.

Familia *PLETHODONTIDAE* Gray, 1850

Subfamily *HEMIDACTYLINAE* Hallowell, 1856 (1850)

Tribus *BOLITOGLOSSINI* Hallowell, 1856

*Batrachoseps diabolus* Jockusch, Wake & Yanev, 1998. – USA (California).

*Batrachoseps gavilanensis* Jockusch, Yanev & Wake, 2001. – USA (California).

*Batrachoseps gregarius* Jockusch, Wake & Yanev, 1998 – USA (California).

*Batrachoseps incognitus* Jockusch, Yanev & Wake, 2001. – USA (California)

*Batrachoseps kawia* Jockusch, Wake & Yanev, 1998. USA (California).

*Batrachoseps luciae* Jockusch, Yanev & Wake, 2001. – USA (California).

*Batrachoseps minor* Jockusch, Yanev & Wake, 2001. – USA (California)

- Batrachoseps regius* Jockusch, Wake & Yanev, 1998. – USA (California).  
*Batrachoseps robustus* Wake, Yanev & Hansen, 2002. – USA (California).  
*Bohtoglossa anthracina* Brame, Savage, Wake & Hanken, 2001. – Panama.  
*Bohtoglossa decora* McCranie & Wilson, 1997. – Honduras.  
*Bohtoglossa guaramacalensis* Schargel, García-Pérez & Smith, 2002. – Venezuela  
*Bohtoglossa humalis* Lynch, 2001a. – Colombia  
*Bohtoglossa lozanoi* Acosta-Galvis & Restrepo, 2001. – Colombia.  
*Bohtoglossa mombachoensis* Köhler & McCranie, 1999. – Nicaragua.  
*Bohtoglossa oaxacensis* Parra-Olea, García-París & Wake, 2002. – Mexico.  
*Bohtoglossa spongia* Barrio Amorós & Fuentes Ramos, 2001. – Venezuela.  
*Bohtoglossa synoria* McCranie & Köhler, 1999a. – Honduras.  
*Bohtoglossa zapoteca* Parra-Olea, García-París & Wake, 2002. – Mexico.  
**Cryptotriton** García París & Wake, 2000. – **Type-species**, by original designation: *Oedipus nasalis* Dunn, 1924. – Honduras.  
*Lineatriton orchileucus* Brodie, Mendelson & Campbell, 2002. – Mexico.  
*Lineatriton orchimelas* Brodie, Mendelson & Campbell, 2002. – Mexico.  
*Nototriton brodiei* Campbell & Smith, 1998. – Guatemala.  
*Nototriton gamezi* García-París & Wake, 2000. – Costa Rica.  
*Nototriton lignicola* McCranie & Wilson, 1997. – Honduras.  
*Nototriton limnospectator* McCranie, Wilson & Polisar, 1998. – Honduras  
*Nototriton monzoni* Campbell & Smith, 1998. – Guatemala.  
*Nototriton saslaya* Köhler, 2002. – Nicaragua.  
*Nototriton stuarti* Wake & Campbell, 2000. – Guatemala.  
*Nototriton wakari* Campbell & Smith, 1998. – Guatemala  
*Oedipina maritima* García-París & Wake, 2000. – Panama  
*Oedipina savagae* García-París & Wake, 2000. – Costa Rica.  
“*Pseudoeurycea amuzga*” Pérez-Ramos & Saldana de la Riva, 2000. Mexico – **Comment:** Nomenclaturally unavailable nomen, as having not been published on a “permanent support”. Nomen made nomenclaturally available in PEREZ-RAMOS & SALDANA DE LA RIVA (2003)  
*Pseudoeurycea aquana* Wake & Campbell, 2001. – Mexico.  
*Pseudoeurycea lynchi* Parra-Olea, Papenfuss & Wake, 2001. – Mexico.  
*Pseudoeurycea naucampatepetl* Parra-Olea, Papenfuss & Wake, 2001. – Mexico.  
*Thorius grandis* Hanken, Wake & Freeman, 1999. – Mexico  
*Thorius infernalis* Hanken, Wake & Freeman, 1999. – Mexico.  
*Thorius lunaris* Hanken & Wake 1998. – Mexico.  
*Thorius magnipes* Hanken & Wake 1998. – Mexico.  
*Thorius minydenus* Hanken & Wake 1998. – Mexico.  
*Thorius munificus* Hanken & Wake 1998. – Mexico.  
*Thorius omilem* Hanken, Wake & Freeman, 1999. – Mexico.  
*Thorius papaloae* Hanken & Wake, 2001. – Mexico.  
*Thorius spilogaster* Hanken & Wake 1998. – Mexico.

Tribus *SPILERPINI* Cope, 1859

- Blepsimolge** Hillis, Chamberlain, Wilcox & Chippindale, 2001. – **Type-species**, by original designation: *Eurycea nana* Bishop, 1941. USA (Texas) **Comment:** Created as a subgenus of *Eurycea* Gray, 1850.  
*Eurycea chisholmensis* Chippindale, Price, Wiens & Hillis, 2000. – USA (Texas).  
*Eurycea naufragia* Chippindale, Price, Wiens & Hillis, 2000. – USA (Texas).  
*Eurycea tonkawae* Chippindale, Price, Wiens & Hillis, 2000. – USA (Texas).

*Eurycea waterlooensis* Hillis, Chamberlain, Wilcox & Chippindale, 2001. – USA (Texas).

**Notiomolge** Hillis, Chamberlain, Wilcox & Chippindale, 2001. – **Type-species**, by original designation: *Eurycea neotenes* Bishop & Wright, 1937. – USA (Texas) – **Comment**: Created as a "division" of *Eurycea* Gray, 1850

**Paedomolge** Hillis, Chamberlain, Wilcox & Chippindale, 2001. **Type-species**, by original designation: *Eurycea tonkawae* Chippindale, Price, Wiens & Hillis, 2000. USA (Texas). – **Comment**: Created as a "section" of *Eurycea* Gray, 1850.

**Septentriomolge** Hillis, Chamberlain, Wilcox & Chippindale, 2001. **Type-species**, by original designation: *Eurycea chisholmensis* Chippindale, Price, Wiens & Hillis, 2000. USA (Texas).

**Comment**: Created as a subgenus of *Eurycea* Gray, 1850.

#### Subfamilia PLETHODONTINAE Gray, 1850

##### Tribus DESMOGNATHINI Gray, 1850

*Aneides vagrans* Wake & Jackman in JACKMAN, 1998. – USA (California).

*Desmognathus folkertsi* Camp, Tilley, Austin & Marshall, 2002. USA (Georgia).

*Speleomantes imperialis sarabusensis* Lanza, Leo, Forti, Cimmaruta, Caputo & Nascetti, 2001. Italy.

##### Tribus PLETHODONTINI Gray, 1850

*Plethodon answorthi* Lazell, 1998. – USA (Mississippi).

*Plethodon amplius* Highton & Peabody, 2000. – USA (North Carolina).

*Plethodon cheoah* Highton & Peabody, 2000. USA (North Carolina).

*Plethodon electromorphus* Highton, 1999. – USA (West Virginia).

*Plethodon meridianus* Highton & Peabody, 2000. – USA (North Carolina)

*Plethodon montanus* Highton & Peabody, 2000. – USA (Virginia).

*Plethodon virginia* Highton, 1999. – USA (Virginia).

#### Superfamilia PROTROIDEA Gray, 1825

##### Familia PROTEIDAE Gray, 1825

† *Mioproteus weberi* Mlynarski, Szyndlar, Estes & Sanchiz, 1984. – Poland. Pliocene.

#### Superfamilia SALAMANDROIDEA Goldfuss, 1820

##### Familia SALAMANDRIDAE Goldfuss, 1820

† *Chelotriton phocemicus* Bailon, 1989. – France. Pliocene.

"*Chioglossa lusitânica brevidigitata*" Ferrand de Almeida, Ferrand de Almeida, Gonçalves, Sequeira, Teixeira & Ferrand de Almeida, 2001. Portugal **Comment**: Nomenclaturally unavailable nomen, as having been published without type-specimen designation and without explicit statement of the intention to establish a new taxon (CROCHET & DUBOIS, 2004: 496)

*Paramesotriton laoensis* Stuart & Papenfuss, 2002. – Laos

*Triturus karelini arntzei* Litvinchuk, Borkin, Džukić & Kaležić in LITVINCHUK, BORKIN, DŽUKIĆ, KALEŽIĆ, KHAI TURIN & ROSANOV, 1999. – Serbia

*Tylototriton asperrimus wenxianensis* Fei, Ye & Yang, 1984. – China (Gansu).

*Tylototriton hainanensis* Fei, Ye & Yang, 1984. – China (Hainan). **Comment:** Authorship of nomen wrongly credited to “Fei & Yang” by FROST (1985: 617) and DUELLMAN (1993: 310).

#### Epifamilia SIRENOIDIA Gray, 1825

#### Superfamilia SIRENOIDEA Gray, 1825

#### Familia SIRENIDAE Gray, 1825

† *Kababisha* Evans, Milner & Werner, 1996. **Type-species**, by original designation: † *Kababisha humarensis* Evans, Milner & Werner, 1996. – Sudan. Cretaceous.

† *Kababisha humarensis* Evans, Milner & Werner, 1996. – Sudan. Cretaceous.

† *Kababisha sudanensis* Evans, Milner & Werner, 1996. – Sudan. Cretaceous.

† *Noterpeton* Rage, Marshall & Gayet, 1993. **Type-species**, by original designation: † *Noterpeton bolivianum* Rage, Marshall & Gayet, 1993. – Bolivia. Cretaceous

† *Noterpeton bolivianum* Rage, Marshall & Gayet, 1993. – Bolivia. Cretaceous.

#### Superordo GYMNOPIHONA Rafinesque-Schmaltz, 1814

#### Ordo GYMNOPIHONA Rafinesque-Schmaltz, 1814

#### Incertae sedis

† *Rubricacaecilia* Evans & Sigogneau-Russell, 2001. **Type-species**, by original designation:

† *Rubricacaecilia monbaroni* Evans & Sigogneau-Russell, 2001. Morocco. Cretaceous.

† *Rubricacaecilia monbaroni* Evans & Sigogneau-Russell, 2001. Morocco. Cretaceous

#### Epifamilia CAECILIOIDIA Rafinesque-Schmaltz, 1814

#### Superfamilia CAECILIOIDEA Rafinesque-Schmaltz, 1814

#### Familia CAECILIIDAE Rafinesque-Schmaltz, 1814

*Boulengerula fischeri* Nussbaum & Hinkel in FISCHER & HINKEL, 1994 [nec *Boulengerula fischeri* Nussbaum & Hinkel, 1994]. – Rwanda. – **Comment** See LÖTTERS (2003).

*Gegeneophis krishna* Pillai & Ravichandran, 1999. – India (Karnataka).

#### Familia ICHTHYOPHIDAE Taylor, 1968

*Ichthyophis garoensis* Pillai & Ravichandran, 1999. – India (Meghalaya).

*Ichthyophis husami* Pillai & Ravichandran, 1999. – India (Meghalaya).

Familia *SCOLECOMORPHIDAE* Taylor, 1969

*Crotaphatrema tchabalmbaboensis* Lawson, 2000. – Cameroon

Familia *TYPHLOECTIDAE* Taylor, 1968

*Atretochoana* Nussbaum & Wilkinson, 1995. **Type-species**, by original designation: *Typhlonectes eiselti* Taylor, 1968. – “South America”.

*Pseudotyphlonectes* Lescure, Renous & Gasc, 1986. **Type-species**, by original designation: *Caecilia natans* Fischer, 1879. – Colombia.

Familia *URAEOTYPHLIDAE* Nussbaum, 1979

*Uraeotyphlus interruptus* Pillai & Ravichandran, 1999 – India (Kerala).

Epifamilia † *EOCAECILIAOIDEA* Jenkins & Walsh, 1993Superfamilia † *EOCAECILIAOIDEA* Jenkins & Walsh, 1993Familia † *EOCAECILIIDAE* Jenkins & Walsh, 1993

† *Eocaecilia* Jenkins & Walsh, 1993. **Type-species**, by original designation: † *Eocaecilia micropodia* Jenkins & Walsh, 1993. – USA (Arizona) Jurassic

† *Eocaecilia micropodia* Jenkins & Walsh, 1993. – USA (Arizona). Jurassic

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# ***Amphibia Mundi*. 1.3. Recent amphibians: suprageneric taxonomic additions (1967-2002)**

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The current *International Code of Zoological Nomenclature* (ANONYMOUS, 1999) only regulates some of the nomina of zoological taxa, belonging to three "groups of names" or better "nominal-series" (DUBOIS, 2000) the species-series, the genus-series and the family-series. It is currently not concerned with the nomenclature of lower-ranked taxa, i.e. of the "variety-series" (DUBOIS, 2005c-d), or of higher-ranked taxa, i.e. of the "class-series" (DUBOIS, 2000, 2005c-d). As a result, the nomenclature of such taxa, supposedly regulated by "usage" and "consensus" among specialists, is in fact arbitrary and chaotic, which causes problem for communication among taxonomists and especially between the latter and all non-specialist users of zoological nomina. For this reason, DUBOIS (2005c-d) recently proposed a set of rules for the nomenclature of class-series taxa. For the time being, only brief summaries of these proposed rules have been published (DUBOIS, 2004, 2005a), and their discussion by the international community of zoologists, before their possible incorporation in the *Code*, may take time. Regarding the NEOBATRACHI (i.e., recent amphibians, taxa represented by at least one species in the currently living fauna of our planet: see DUBOIS, 2004), in the series *Amphibia Mundi*, for reasons explained in DUBOIS (2005b), such nomina are currently not used, but this may change in the future, when more robust hypotheses on the relationships among amphibian fossil and recent groups are available and widely accepted. It will then be useful to have a list of available class-series nomina, some of which may have then to be considered as valid. As changes are also likely to occur at family level and below, a similar list for family-series nomina will also be useful.

The present list presents additions in the taxonomy of NEOBATRACHI for taxa above rank genus, published until 2003 after the two lists of such taxa of KUHN (1967) and DUBOIS (1984), or ignored in these two lists. The period covered by these additions starts in 1984 for family-series taxa of living anurans, and in 1967 for all other taxa and nomina. It ends on 31 December 2002 for all these groups.

New nomina of the family-series (i.e., families, subfamilies, tribes and subtribes; DUBOIS, 2000, 2005c-d) are printed in **SMALL CAPITAL ITALICS**, followed by the nomina of their *type-genera*, and by the *country* of the *type-locality* of the type-species of the latter (not the currently known or inferred geographical distribution of the taxon, that may be much larger).

New nomina of the class-series (i.e., orders, classes, etc.; DUBOIS, 2000, 2005a, c-d) are printed in **BOLD SMALL CAPITALS**. As class-series nomina below the rank order are not recognized in the



ergotaxonomy used here (DUBOIS, 2005b), any new nomen of this nominal-series is simply listed below the nomen of the least inclusive class-series taxon including all its originally included genera or *conucleogenera* (see DUBOIS, 2005d), followed between square brackets by the rank afforded to this nomen in the publication where it was created.

Only new nomina are listed, and taxonomic or nomenclatural changes other than additions (e.g., synonymisation or revalidation of nomen, change of rank or or higher taxonomic allocation of taxon, first-reviser action, orthographic emendation) are not considered here. The new nomina are listed below by alphabetical order under taxa according to the conservative general taxonomic frame of DUBOIS (2005b). The nomina of all-fossil taxa are preceded by the sign †. Nomenclaturally unavailable nomina (i.e., nomina nuda and other kinds of anoplonyms, as defined by DUBOIS, 2000) are presented below "between quotation marks".

Classis **AMPHIBIA** De Blainville, 1816

Subclassis **NEOBATRACHI** Sarasin & Sarasin, 1890

Superordo † **ALLOCAUDATA** Fox & Naylor, 1982

Ordo † **ALLOCAUDATA** Fox & Naylor, 1982

† **ALLOCAUDATA** Fox & Naylor, 1982 [ordo].

Superordo **BATRACHIA** Brongniart, 1800

Ordo **ANURA** Duméril, 1806

**ARCHAEOSALIENTIA** Roček, 1981 [ordo]

**BOMBINANURA** Ford & Cannatella, 1993 ["taxon"].

**DISCOGLOSSANURA** Ford & Cannatella, 1993 ["taxon"].

**LEIOPELMATANURA** Ford & Cannatella, 1993 ["taxon"]

**NEOCAUDATA** Cannatella & Hillis, 1993 [no rank given]

**NEOSALIENTIA** Roček, 1981 [ordo].

**PARATOIDEA** Gardiner, 1982 [superordo] - **Comment** Nomen misspelled **PARATOIDEA** by MILNER (1988)

**PIPANURA** Ford & Cannatella, 1993 ["taxon"].

**PIPI-MORPHA** Ford & Cannatella, 1993 ["taxon"].

**PROCERA** Feller & Hedges, 1998 [superordo].

Incertae sedis

† **PROSAURIDAE** Shubin & Jenkins, 1995 **Type-genus**, by original designation: † *Prosalirus* Kuhn, 1964 - USA (Arizona). Jurassic.

† **TREGOBATRACHIDAE** Holman, 1974 **Type-genus**, by original designation. † *Tregobatrachus* Holman, 1964. USA (Kansas). Miocene

Epifamilia *BOMBINATOROIDIA* Gray, 1825

Superfamilia *BOMBINATOROIDEA* Gray, 1825

Familia *BOMBINATORIDAE* Gray, 1825

Subfamilia † *GobiATINAE* Roček & Nessov, 1993

† *GobiATIDAE* Roček & Nessov, 1993. – Mongolia. Cretaceous.

Epifamilia *PELOBATOIDIA* Bonaparte, 1850

Superfamilia *PELOBATOIDEA* Bonaparte, 1850

Familia *PELOBATIDAE* Bonaparte, 1850

Subfamilia *MEGOPHRYINAE* Noble, 1931 (1850)

Tribus *LEPTOBRACHIINI* Dubois, 1983

“*LEPTOBRACHIINI*” Dubois, 1980. **Type-genus**, by implicit etymological designation *Leptobrachium* Tschudi, 1838. – Indonesia (Java). – **Comment**: Nomenclaturally unavailable nomen, as published conditionally (Art. 15.1).

*LEPTOBRACHIINAE* Dubois, 1983. **Type-genus**, by implicit etymological designation *Leptobrachium* Tschudi, 1838. Indonesia (Java).

*OREOLALAXINAE* Tian & Hu, 1985. **Type-genus**, by original designation: *Oreolalax* Myers & Leviton, 1962. – China (Sichuan) – **Comment** The original spelling of this nomen is incorrect and should be emended into *OREOLALAGINAE*, a justified emendation which was first used by DUBOIS (1987b).

Subfamilia *PELOBATINAE* Bonaparte, 1850

† *EPELOBATINAE* Špinar, 1972 **Type-genus**, by original designation: † *Eopelobates* Parker, 1929. Germany. Oligo-Miocene boundary.

Epifamilia *PIPOIDIA* Gray, 1825

Superfamilia *PIPOIDEA* Gray, 1825

Familia *PIPIDAE* Gray, 1825

Subfamilia *DACTYLETHRINAE* Hogg, 1838

*SILURANINAE* Cannatella & Trueb, 1988 **Type-genus**, by implicit etymological designation: *Silurana* Gray, 1864. – Nigeria.

Epifamilia *RANOIDIA* Rafinesque-Schmaltz, 1814

Superfamilia *HYLOIDEA* Rafinesque, 1815

Familia *BUFONIDAE* Gray, 1825

*STEPHOPAEDINI* Dubois, 1987a. **Type-genus**, by original designation: *Stephopaedes* Channing, 1978 - Zimbabwe.

Superfamilia *RANOIDEA* Rafinesque-Schmaltz, 1814

Familia *MICROHYLIDAE* Günther, 1858 (1843)

Subfamilia *ASTEROPHRYINAE* Günther, 1858

Tribus *BARYGENYINI* Burton, 1986

*BARYGENYINI* Burton, 1986. **Type-genus**, by original designation: *Barygenys* Parker, 1936. Papua New Guinea.

Tribus *CALLULOPINI* Dubois, 1988

*CALLULOPINI* Dubois, 1988. **Type-genus**, by original designation: *Callulops* Boulenger, 1888. Papua New Guinea.

Subfamilia *MICRONYLINAE* Günther, 1858 (1843)

*OTOPHRYINAE* Wassersug & Pyburn, 1987 - **Type-genus**, by original designation: *Otophryne* Boulenger, 1900. - Guyana.

Subfamilia *PHRYNOMERINAE* Noble, 1931

*PHRYNOMANTINI* Burton, 1986. **Type-genus**, by original designation: *Phrynomantis* Peters, 1867. South Africa.

Familia *BREVICIPITIDAE* Bonaparte, 1850

Subfamilia *BREVICIPITINAE* Bonaparte, 1850

*TOMOPTERNINI* Dubois, 1987a. **Type-genus**, by original designation: *Tomopterna* Duméril & Bibron, 1841. - South Africa

Familia *RANIDAE* Rafinesque-Schmaltz, 1814

Subfamilia *CONRAUINAE* Dubois, 1992

*CONRAUINI* Dubois, 1992    **Type-genus**, by original designation: *Conraua* Nieden, 1908 - Cameroon.

Subfamilia *DICROGLOSSINAE* Anderson, 1871

Tribus *LIMNONECTINI* Dubois, 1992

*LIMNONECTINI* Dubois, 1992.    **Type-genus**, by original designation: *Limnonectes* Fitzinger, 1843. Indonesia (Java).

Tribus *OCCIDOZYGINI* Fei, Ye & Huang, 1991

*OCCIDOZYGINAE* Fei, Ye & Huang, 1991.    **Type-genus**, by original designation: *Ocoidozyga* Kuhl & Van Hasselt, 1822. - Indonesia (Java).

Tribus *PAINI* Dubois, 1992

*PAINI* Dubois, 1992.    **Type-genus**, by original designation *Paa* Dubois, 1975. Nepal.

Subfamilia *LANKANECTINAE* Dubois & Ohler, 2001

*LANKANECTINAE* Dubois & Ohler, 2001    **Type-genus**, by original designation *Lankanectes* Dubois & Ohler, 2001. - Sri Lanka

Subfamilia *MANTELLINAE* Laurent, 1946

Tribus *BOOPHINI* Vences & Glaw, 2001

*BOOPHINAE* Vences & Glaw, 2001    **Type-genus**, by original designation. *Boophis* Tschudi, 1838 - Madagascar.

Tribus *LALIOSTOMINI* Vences & Glaw, 2001

*LALIOSTOMINAE* Vences & Glaw, 2001. - **Type-genus**, by original designation. *Laliostoma* Glaw, Vences & Bohme, 1998 - Madagascar. **Comment** This family-series nomen was ill formed as the stem of the nomen *Laliostoma* is *Laliostomat-*. However, according to Art. 29.4 of the current version of the Code (ANONYMOUS, 1999), in such cases the original spelling "must be maintained as the correct

original spelling", artificially considering that "its stem is formed from the name of the type genus as though it were an arbitrary combination of letters".

Subfamilia *MICRIXALINAE* Dubois, Ohler & Biju, 2001

*MICRIXALINAE* Dubois, Ohler & Biju, 2001. **Type-genus**, by original designation: *Micrixalus* Boulenger, 1888. – "Southern India".

Subfamilia *NYCTIBATRACHINAE* Blommers-Schlösser, 1993

*NYCTIBATRACHINAE* Blommers-Schlösser, 1993 **Type-genus**, by original designation: *Nyctibatrachus* Boulenger, 1882. – India (Kerala).

Subfamilia *PTYCHADENINAE* Dubois, 1987

*PTYCHADENINI* Dubois, 1987a – **Type-genus**, by original designation: *Ptychadena* Boulenger, 1917. La Réunion, Mascarene Islands.

Subfamilia *RANINAE* Rafinesque-Schmaltz, 1814

Tribus *RANINI* Rafinesque-Schmaltz, 1814

"*AMOLOPINAE*" Yang, 1989. **Type-genus**, by original designation: *Amolops* Cope, 1865 – "Afghanistan". – **Comment**: nomen nudum.

*AMOLOPINA* Yang, 1991 – **Type-genus**, by original designation: *Amolops* Cope, 1865 "Afghanistan".

**Comment** The original spelling of this nomen is incorrect and should be emended into *AMOLOPINAE*, a justified emendation which was first used by FEI, YE & HUANG (1991).

Subfamilia *RANIXALINAE* Dubois, 1987

*RANIXALINI* Dubois, 1987a – **Type-genus**, by original designation: *Ranixalus* Dubois, 1986 – India (Karnataka).

*INDIRANINAE* Blommers-Schlösser, 1993 **Type-genus**, by original designation: *Indirana* Laurent, 1986 – India (Kerala).

Subfamilia *RHACOPHORINAE* Hoffman, 1932 (1858)

Tribus *BURGERIINI* Channing, 1989

*BURGERIINAE* Channing, 1989 **Type-genus**, by original designation: *Buergeria* Tschudi, 1838 Japan.

Ordo **URODELA** Duméril, 1806

## Incertae sedis

Familia † *PROSIRENIDAE* Estes, 1969

† *PROSIRENIDAE* Estes, 1969 – **Type-genus** by original designation. † *Prosiren* Goin & Auffenberg, 1958. – USA (Texas). Cretaceous.

Familia † *SCAPHERPETONTIDAE* Auffenberg & Goin, 1959

† *EOSCAPHERPETONINAE* Nesselov, 1981. – **Type-genus** by original designation: † *Eoscapherpeton* Nesselov, 1981. – Uzbekistan Cretaceous.

Epifamilia *CRYPTOBRANCHOIDIA* Fitzinger, 1826Superfamilia *CRYPTOBRANCHOIDEA* Fitzinger, 1826Familia *CRYPTOBRANCHIDAE* Fitzinger, 1826

† *AVTURINAE* Gubin, 1991 **Type-genus**, by original designation: † *Aviturus* Gubin, 1991 Mongolia. Palaeocene.

Familia *HYNOBIIDAE* Cope, 1859 (1856)Subfamilia *PROTOHYNOBINAE* Fei & Ye, 2000

*PROTOHYNOBINAE* Fei & Ye, 2000. **Type-genus**, by original designation: *Protohyobius* Fei & Ye, 2000. – China (Sichuan).

Epifamilia † *KARAUROIDIA* Ivachnenko, 1978Superfamilia † *KARAUROIDEA* Ivachnenko, 1978Familia † *KARAURIDAE* Ivachnenko, 1978

† *KARAURIDAE* Ivachnenko, 1978 **Type-genus**, by original designation. † *Karaurus* Ivachnenko, 1978 – Kazakhstan Jurassic

Epifamilia *SIRENOIDIA* Gray, 1825Superfamilia *SIRENOIDEA* Gray, 1825Familia *SIRENIDAE* Gray, 1825

† *NOTERPETONTIDAE* Rage, Marshall & Gayet, 1993 **Type-genus**, by original designation: † *Noterpeton* Rage, Marshall & Gayet, 1993. – Bolivia. Cretaceous.

## Superordo GYMNOPIHONA Rafinesque-Schmaltz, 1814

## Ordo GYMNOPIHONA Rafinesque-Schmaltz, 1814

EPICRIDEI Lescure, Renous &amp; Gasc, 1986 [infraordo].

RHINATREMATOIDEI Lescure, Renous &amp; Gasc, 1986 [subordo].

SIPHONOPIDEI Lescure, Renous &amp; Gasc, 1986 [subordo]

## Familia CAECILIIDAE Rafinesque-Schmaltz, 1814

AFROCAECILIITI Lescure, Renous & Gasc, 1986. **Type-genus**, by original designation: *Afrocaecilia* Taylor, 1968. - Kenya.BRASILIOTYPHILITI Lescure, Renous & Gasc, 1986 - **Type-genus**, by original designation: *Brasiliotyphilus* Taylor, 1968. Brazil (Amazonas).DERMOPHIINAE Taylor, 1969 - **Type-genus**, by original designation. *Dermophis* Peters, 1879 - Mexico. GEOTRYPETIDAE Lescure, Renous & Gasc, 1986. **Type-genus**, by original designation. *Geotrypetes* Peters, 1880. - GabonGRANDISONIILAE Lescure, Renous & Gasc, 1986. **Type-genus**, by original designation: *Grandisonia* Taylor, 1968. - Seychelles.GYMNOPIHILAE Lescure, Renous & Gasc, 1986 **Type-genus**, by original designation: *Gymnopsis* Peters, 1874 - PanamaHERPELIINAE Lescure, Renous & Gasc, 1986. **Type-genus**, by original designation: *Herpele* Peters, 1879. - Gabon.INDOTYPHILINI Lescure, Renous & Gasc, 1986 - **Type-genus**, by original designation. *Indotyphilus* Taylor, 1960. - India (Maharashtra).OSCAECILIIDAE Lescure, Renous & Gasc, 1986 **Type-genus**, by original designation: *Oscacilia* Taylor, 1968. - PanamaPSEUDOSIPHONOPITI Lescure, Renous & Gasc, 1986 **Type-genus**, by original designation: *Pseudosiphonops* Taylor, 1968. - Brazil

## Familia ICHTHYOPHIDAE Taylor, 1968 (1843)

ICHTHYOPHIDAE Taylor, 1968. **Type-genus**, by original designation: *Ichthyophis* Taylor, 1968. Sri Lanka

## Familia SCOLECOMORPHIDAE Taylor, 1969

SCOLECOMORPHIDAE Taylor, 1969. **Type-genus**, by original designation: *Scolecormorphus* Boulenger, 1883 - Tanzania

## Familia TYPHLOECTIDAE Taylor, 1968

POTOMOTYPHILITAE Lescure, Renous & Gasc, 1986 **Type-genus**, by original designation: *Potomotyphilus* Taylor, 1968 - Venezuela **Comment** The original nomen of this family is incorrect and should be emended into POTOMOTYPHILITAE, according to Art. 35.4.1 of the Code.PSEUDOTYPHLOECTITAE Lescure, Renous & Gasc, 1986 **Type-genus**, by original designation: *Pseudotyphloectes* Lescure, Renous & Gasc, 1986. - Colombia.

*TYPHLONECTIDAE* Taylor, 1968. **Type-genus**, by original designation: *Typhlonectes* Peters, 1879. French Guyana.

Familia *URABOTYPHLIDAE* Nussbaum, 1979

*URABOTYPHLINAE* Nussbaum, 1979 **Type-genus**, by original designation: *Uraeotyphlus* Peters, 1979. India (Kerala).

Superfamilia *RHINATREMATOIDEA* Nussbaum, 1977

Familia *RHINATREMATIDAE* Nussbaum, 1977

*RHINATREMATIDAE* Nussbaum, 1977. **Type-genus**, by original designation: *Rhinatrema* Taylor, 1968. Venezuela.

Epifamilia † *EOCAECILIOIDIA* Jenkins & Walsh, 1993

Superfamilia † *EOCAECILOIDEA* Jenkins & Walsh, 1993

Familia † *EOCAECILIIDAE* Jenkins & Walsh, 1993

† *EOCAECILIIDAE* Jenkins & Walsh, 1993. **Type-genus**, by original designation: † *Eocaecilia* Jenkins & Walsh, 1993. USA (Arizona). Jurassic. **Comment:** The original nomen of this family is incorrect and should be emended into *EOCAECILIDAE*, a justified emendation first used by DUBOIS (2005b). The original spelling was clearly derived from that of the familial nomen *CAECILIIDAE*. The latter spelling was once adopted by ICZN (ANONYMOUS, 1987) to avoid homonymy with a familial nomen of Insects, but this decision was later modified by ICZN (ANONYMOUS, 1996) to return to the well-known spelling *CAECILIIDAE*. In 1993, the *Code* in force was the so-called third edition (ANONYMOUS, 1985) according to which an incorrect original familial nomen must be corrected. This rule was changed in the so-called fourth edition (ANONYMOUS, 1999; see above under *LALIOSTRAMINAE*) but it applies to any familial nomen published before 31 December 1999.

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# Amphibia Mundi

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